



***The Air Force Global Reach Laydown  
(GRL): Using the Estimating Supplies  
Program to Validate Clinical Requirements***

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# **The Air Force Global Reach Laydown (GRL)**

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## **Using the Estimating Supplies Program to Validate Clinical Requirements**

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## Summary

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### Problem

The U.S. Air Force Medical Support Agency, Surgeon General Support Logistics Office (AFMSA/SGSLX) requested that the Naval Health Research Center (NHRC) conduct a proof-of-concept study to assess the validity and feasibility of using NHRC's Estimating Supplies Program for the development and management of Air Force medical Allowance Standards (AS). The Global Reach Laydown (GRL) Unit Type Code (UTC) AS was selected as the final of three Air Force UTCs for this study. The goal of this final UTC study was the development of an inventory validation process using NHRC's modeling database. Previous modeling efforts for Air Force UTCs involved the Mobile Forward Surgical Team and the Critical Care Air Transport Team.

### Objective

The primary objective of this study was to provide the Air Force with the ability to validate the clinical and preventive medicine (PM) requirements of the GRL assemblage, with the goal of using the NHRC medical model and database to establish a viable audit trail linking clinical requirements with supply items.

### Approach

This study was accomplished in two phases. The first phase entailed discussion with a subject matter expert (SME) panel and Manpower and Equipment Force Packaging (MEFPAK) Managers to better understand mission capability requirements in order to (1) understand the operating environment in which the AS is employed, (2) determine the level of care the AS is supposed to support, (3) develop the range of patient conditions (PCs) and nonclinical procedures the AS must be capable of supporting, and (4) better understand its mission scope. Concurrently, NHRC began dialogues with the SME panel and MEFPAK Managers to determine probabilities and frequencies for each PC and PM task.

Following NHRC's process of modeling clinical requirements for field medical facilities, we used its Estimating Supplies Program (ESP) database of medical task and supply profiles as a template and completed the relational mapping of PCs to clinical task protocols, medical equipment and supplies, and identified 120 clinical, PM, and nonclinical tasks required by the GRL mission.

### Results

The most significant result of this effort was mapping and aligning GRL equipment and supplies to joint materiel solutions and the clinical requirement those items satisfy. This joint solution calls for tasks and supplies for systems needed to provide medical services at a defined level of care, for the GRL level I-II. There were shortfalls in the array of tasks required for this level of care, most notably those associated with nasogastric insertion and suction, chest tube suction, and cardiopulmonary resuscitation. When a required task did not have supplies and equipment in the GRL inventory, they were added to the model.

The mapping was accomplished by identifying direct matches, alternates, and substitutes from the GRL inventory to line items in the Battalion Aid Station, Sick Call, Surgical Company, and PM functional areas. (FAs). The joint solutions were derived from PC, task, and required supplies and equipment relationships from the relational database in ESP. GRL equipment and supplies mapped to the joint solution in these databases has yet to be vetted by the SME panel. Once these recommended changes are either accepted or rejected by the SME panel, a final inventory can be forwarded for approval.

Another result of this effort was the comparison of the weight, cube, and cost of the inventory after simulation. The inventory simulation was based on the low unit measure consumption of supplies and equipment. The low unit of measure in this case is the smallest unit in which a packaged item is delivered. For instance, many injectable medications are provided in vials in 12 -vial packages. In this example, the low unit of measure is 1 vial. Using this convention, there was a 30% increase in weight and 6% in cost, due to packaging consumables and medications in high-volume packages and adding additional items for those required tasks to the inventory.

## **Discussion and Conclusion**

Using the relational databases in ESP enabled the team to determine joint materiel solutions for the GRL at the level of care appropriate for this system's configuration. This ensured inventory items were mapped to clinical requirements within the GRL scope of care and PM services.

Using a patient stream and PM task frequencies that reflected the GRL mission and its concept of employment, ESP generated an appropriate supply list. The unit of measure (UM), unit of issue (UI), weight, cube, and cost were then compared with those in the current GRL AS.

Using ESP as a management tool to configure allowance standards is invaluable. The program allows planners to calculate the required configuration for UTCs based on a system's clinical requirements and consumption of inventory line items. The program enables Managers to identify specific PCs, tasks, and supplies required. This tool can also be used in AS modernization because it enables SMEs to identify stock levels for specific tasks and treatment profiles for a given PC. In an effort to create leaner, smaller, and lighter allowance standards, treatment profiles and associated materiel can be tailored to satisfy a specific mission or used to determine which PC, task, or associated supply is critical. Noncritical tasks can be deleted from treatment profiles and noncritical supplies can be removed from tasks. All efforts in this modeling and simulation result in optimized inventories for expeditionary UTCs.

# Introduction

## Background

The US Armed Services are developing military medical systems to satisfy the Joint Chiefs of Staff's *Vision 2010* concept of providing greater expeditionary mobility and dispersion with a smaller logistical footprint.<sup>1</sup> To accomplish this, a more precise and efficient method for determining medical readiness capabilities is needed.

Under the aegis of the Marine Corps Systems Command, NHRC developed a medical requirements model and supporting database consisting of clinical tasks mapped to the supplies required to complete those tasks. This model and its database were used to develop such Marine Corps medical capabilities as the Forward Resuscitative Surgical System (FRSS)<sup>2</sup> and the En Route Care System (ERCS)<sup>3</sup>. It was also used to validate the Air Force's Mobile Forward Surgical Team (MFST)<sup>4</sup> and Critical Care Air Transport Team (CCATT) Allowance Standard.<sup>5</sup> The database is also a primary source of data for the joint Common User Database developed by the Defense Medical Standardization Board (DMSB) for clinical tasks at Levels I and II of battlefield care.

The AFMSA/SGSLX requested that NHRC conduct a proof of concept study to assess the validity and feasibility of integrating the use of ESP in Air Force AS development and management. The task was to develop the GRL using NHRC's underlying relational database structure (Figure 1), which outlines the associations made between PCs, tasks, and related supplies, in this case, for PC 166, a multiple injury wound involving penetrating wounds to the chest and kidney. Knowing which PCs the GRL treats would lead to tasks, and ultimately, a workable inventory of supplies.

PC Code	Level of Care	Functional Area	Task	% of Patients	Supplies
001			Triage	100	Sponge surgical cellulose & cotton & gauze 4X4" Pad abdominal 7.5X8" white 3 layers sterile 240S Dressing pressure pad cotton 7.5X8" sterile latex-free Dressing pressure pad cotton 11.75X11.75 sterile latex-free Adhesive tape surgical 198X2" white hypoallergenic 6S
002			Assess/ Evaluate Patient	100	
003			Oxygen Set Up	100	
-			Oxygen Admin	100	
-		Sick Call	Needle Thoracostomy	25	
166	GRL	Preventive Medicine	Emergency Control Of Hemorrhage	100	
167			Interpret Lab Results	75	
168			Warm Fluid Infusion	50	

Figure 1. Modeling Relational Database Structure for Clinical Tasks

Preventive Medicine Objectives (PMOs) were modeled with associated supplies and equipment, as depicted in Figure 2. Task frequencies, determined using

SME input, are largely dependent on population at risk (PAR) size and the inherent disease risk for a given area of operations. SME recommendations were based on deploying with a full complement of 300 personnel for a 30-day period in an operational setting with minimal host-country infrastructure and PM assets.

PMO	Level of Care	Functional Area	Task	Task Freq for 30 days	Equipment/Supplies
1	-	Sick Call	Test Water for Coliforms	52	Bag water sample polyethylene Water sampling test reagent coliform 200S Water testing kit bacteriological Comparator Color:Hydrogen ion & residual chorine
2	-		Test Water for Chemicals	4	
3	GRL		Habitability Survey	4	
4	-		Air Sampling	20	
5	-		Monitor Heat Conditions	300	
6	-	Preventive Medicine	Screen Treatment Logs for Infectious Diseases	30	

Figure 2. Modeling Relational Database Structure for Preventive Medicine Tasks

## Global Reach Laydown Capabilities

The GRL's capabilities are designed to reduce the impact of disease and nonbattle injuries on contingency operation missions, and to provide limited medical support. The GRL deploys with Tanker Airlift Control Elements (TALCE) or Mission Support Teams (MSTs), and assesses health risks associated with environmental and occupational health hazards. The GRL provides the war fighter with capabilities, in support of establishing a potential main operating base in a forward deployed location.<sup>6</sup> The specific capabilities are:

- Provides medical input into proper lay-down of installation facilities
- Determines adequacy of local billeting and public facilities
- Evaluates local medical capabilities
- Recommends locations for medical facilities
- Evaluates safety and vulnerability of local food and water sources
- Assesses occupational and environmental hazards
- Performs vector/pest risk assessment
- Provides medical intelligence
- Performs epidemiological risk assessment
- Performs initial nuclear, biological, and chemical and emergency response planning
- Provides limited medical support

The GRL consists of four personnel: an Aerospace Medicine Specialist, a Bioenvironmental Engineer, a Public Health Officer, and an Independent Duty

Medical Technician. The team is designed for mobility so it can provide timely clinical and PM support to meet the operational needs of the TALCE/MST.

## Methodology

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The NHRC method of modeling medical materiel requirements was developed to establish and/or review Authorized Medical Allowance Lists (AMALs) for various levels of care in the Navy and Marine Corps. Its aim is to give medical personnel in the fleet or the field the materiel they need to provide the best possible care, while maintaining the minimal logistical footprint mandated by current Navy and Marine Corps doctrine. An SME panel rigorously reviews and vets each step of this process, to ensure every AMAL meets the operational and medical needs of the service.

The ESP database was derived from Time, Task, Treater (T<sup>3</sup>T) files originally developed by DMSB for Level 3 military treatment facilities (MTFs). NHRC adapted the Time, Task, Treater files to model both Navy and Marine Corps Level 1 and 2 facilities, updating ESP data monthly to reflect changes in medical equipment and supplies. FAs within each level of care are also routinely updated, using SME input and military medical lessons-learned data, to remain current with changes in field care and joint doctrine. As a result, NHRC is the primary contributor of Level 1 and 2 data to the DMSB Common User Database, the reason we chose NHRC's ESP database as the primary data source for this study (telephone conference with DMSB, AFMSA/SGSLX, and NHRC, 7 July 2005). A comprehensive description of ESP's background, capabilities, uses, frequently asked questions, and a download link is available (<http://www.nhrc.navy.mil/programs/esp/index.html>).

The GRL model has two FAs, sick call, and PM. Using two FAs from separate systems in ESP, the assessment objective was to document the clinical and PM capability of the existing UTC configuration, and validate the associated medical supplies and equipment required to support GRL operational needs. This effort was addressed in two phases.

### Phase I

Phase I of the process documented GRL clinical capability requirements, based on the system's operational requirements. This involved reviewing Air Force requirement documents, such as the Mission Capability, Tactics, Techniques and Procedures, Mission Essential Task List, and other pertinent documents.

During Phase I, there were facilitated discussions with clinical and PM SMEs and the USAF MEFPK Managers, to develop a detailed profile of PCs, PMOs, and clinical and PM procedures the GRL must support. These discussions also ensured a broad-based understanding of the entire GRL medical system and identified its inherent capabilities. A list of the SMEs appears in Appendix A.

## Patient Conditions and Preventive Medicine Objectives

PCs and PMOs were selected from Marine Corps clinical and PM systems with mission capabilities similar to those of the GRL, namely the Battalion Aid Station and the Surgical Company PM systems. The GRL SMEs agreed that the 318 PCs and 10 PMOs were within both the scope of care and services required by the mission statement and the GRL concept of operations. Appendix B is a complete list of those PCs and PMOs.

### Task List

The NHRC database has 120 clinical, PM, and nonclinical tasks at this level of care for sick call and PM FAs. A complete list of tasks for the GRL is provided in Appendix C.

### Patient Stream Generation

Discussion with GRL SMEs determined that the GRL system could expect to treat an average of 80 new patients within its 30-day mission. The NHRC Patient Stream Generator determined which of the identified PCs the GRL was most likely to see.

The PCs listed in Appendix D were derived from the 80th percentile of the list after 100 iterations, ensuring with high statistical probability that all PCs were present in the patient stream at least once. Note that the attachment lists more than the proscribed 80 patients. This is due to the patient generator's random sampling, which, by capturing most of the GRL's required tasks, guarantees a more robust patient stream. When tasks were not captured, supplies and equipment required to perform them once were added, and these tasks are listed in Table 1.

**Table 1.**  
**Tasks Not Found in the Patient Stream**

Task No.	Task Description
007	Emergency Cricothyroidotomy
063	Venous Cutdown
076	Gastric Lavage
079	Catheterization, Foley
121	Eye Irrigation
123	Eye Care (Dressings/Eye Patch)
124	Ear Care Irrigation
802	Initial/Subsequent Non-Surg Debride of Burn or Open Wound
A6	Apply Tourniquet
D294	Sedative Filling
Z094	Extremity Traction, Application/Adjust
ZZ02	Stain Eyes (Fluorescein Stain/Woods Lamp)

## Preventive Medicine Task Frequency

Assigning task frequencies for PM tasks is different from determining clinical task frequencies, since no equivalent of a patient stream generator exists for PMOs. Historically, NHRC has modeled PM supply requirements based on planning for “worst-case scenarios.” This ensured that the PM inventory would be populated with adequate consumable levels even if the system deployed to an environment with a limited or nonexistent public health infrastructure. The frequency with which these tasks are performed is generally based on the PAR and the environment in which the system is deployed.

The PM SMEs provided input based on whether the task is performed daily, weekly, or only once during a deployment. For instance, chlorine testing is done daily. Given a worst-case scenario, that of a GRL supporting a full complement of personnel in an area with little public health infrastructure, the SMEs predicted what type of water sampling would be completed and how often. The PM task frequency matrix appears in Appendix E.

## Phase II

In Phase II, those clinical tasks required to treat each PC from Phase I of the study were identified. ESP links each task to those supplies required to complete it one time. The supplies vary according to level of care and FA. The task-supply profiles were compared with the GRL inventory, and direct matches, alternates, and substitutes were identified. A direct match was an National Stock Number (NSN) match. Alternatives were defined as supply items with identical nomenclature, but different strengths or units of issue. A substitute was defined as a different product with similar properties or clinical actions. Alternates and substitutes are listed as potential replacement items in the inventory. GRL inventory supplies and equipment and line items pulled from ESP were compiled and categorized in the following manner:

**A. Current GRL Component – Delete/Sub:** The NSN listed is currently in the GRL, but is recommended for deletion and replacement by another NSN.

**B. Current GRL Component – Retain – Level Increase:** The NSN listed is currently in the GRL, is retained and the model recommends increasing the quantity (same UI as currently in the GRL).

**C. Current GRL Component – Retain – Level Decrease:** The NSN listed is currently in the GRL, is retained, and the model recommends decreasing the quantity (same UI as currently in the GRL)

**D. Current GRL Component – Retain (Convert to Low Unit of Measure (LUM) UI):** The NSN listed is currently in the GRL, is retained, and the model recommends converting the UI to a LUM quantity in the assemblage.

**E. Current GRL Component – Retain – No Change:** The NSN listed is currently in the GRL and no change is required.

**F. Current GRL Component – Delete:** The NSN listed is currently in the GRL, and is recommended for deletion with no replacement required.

**G. New GRL Component – Replacement Item:** The NSN listed is not currently in the GRL, and is a replacement for an existing GRL NSN.

**H. New GRL Component:** The NSN listed is not currently in the GRL and is recommended as a new item.

There were 479 line items categorized for this study. The number of items and percentages for the subsets categorized A–H are provided in Table 2. Categories A and G are linked because Category A is the GRL item recommended for deletion and replacement by the Category G item, which is an ESP line item representing a materiel solution that is standard across the branches of service. Categories B, C, E, and F are all current GRL items for which ESP recommended a quantity increase, decrease, no change, or deletion. Category D lists all current GRL items for which there is a recommended packaging change from UI to UM. Category H represents new items recommended to satisfy new tasks and capabilities appropriate for this level of care. Appendix F provides a complete list of these line items.

**Table 2**  
**Percent Category**

Category	Number	Percent
A	69	14.68
B	20	4.26
C	62	13.19
D	9	1.91
E	149	31.70
F	5	1.06
G	70	14.89
H	86	18.30
Total	470	100

## Results

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As a result of the SME input and their clinical and PM guidance, a model was built using the GRL inventory and the supplies and equipment for new tasks. Additionally, a patient stream was prepared and PM task frequencies were identified to complete the simulation effort for this inventory.

For this study, an analysis of the impact of the patient stream was conducted using the low UM. When the results of the patient stream were studied using this convention, an increase in overall cost and weight was apparent. This is due primarily to addition of those items added for required tasks not previously satisfied by the inventory. These items alone totaled \$7,673.08 (10.9%) and weighed 191.02 pounds (11.4%). Table 3 displays the supply requirements for this patient stream.

**Table 3**  
**Low Unit of Measure (UM)**

Category	Weight	Cube	Cost
Current equipment	490.104	95.077	\$44,674.54
Revise equipment	585.384	103.377	\$51,694.85
Difference	95.280	8.300	\$7,020.31
<b>Percent change</b>	<b>19.441</b>	<b>8.730</b>	<b>15.7143</b>
Current medication	232.100	28.045	\$7,835.54
Revise medication	217.304	18.461	\$5,829.63
Difference	-14.796	-9.584	-\$2,005.91
<b>Percent change</b>	<b>29.700</b>	<b>55.628</b>	<b>40.8281</b>
Current consumable	588.808	52.262	\$8,449.32
Revise consumable	785.768	88.735	\$11,891.87
Difference	196.960	36.473	\$3,442.55
<b>Percent change</b>	<b>33.451</b>	<b>69.789</b>	<b>40.7435</b>
Current durables	71.350	8.320	\$636.65
Revise durables	73.050	20.955	\$662.71
Difference	1.700	12.635	\$26.06
<b>Percent change</b>	<b>58.094</b>	<b>132.041</b>	<b>14.2307</b>
Current total	1382.362	183.704	\$61,596.05
Revise total	1661.506	231.528	\$70,079.06
Difference	279.144	47.824	\$8,483.01
<b>Percent change</b>	<b>30.177</b>	<b>8.821</b>	<b>6.0949</b>

There was a significant increase in the weight, cube, and cost in the equipment category. This is in part attributable to items like the suction machine and the automatic external defibrillator that were added to satisfy tasks previously not performed due to materiel shortfalls in the inventory. These two items alone totaled nearly \$6,000.00.

The overall decrease in medication is due to the nature of packaging and consumption of these line items. High-value antibiotics like ceftriaxone sodium are provided in packages of 10 vials at \$207.25 per package. The patient stream called for 12 vials. If these items were supplied in lower UMs, by vial instead of package, a cost difference of \$186.48 would be realized for this one item. The benefits of reverting to low UM from UI can be seen throughout the inventory. For instance, haloperidol is supplied in packages of 10 ampules and the patient stream called for one ampule, and whereas 6 expensive bottles containing 100 tablets of 500-mg ciprofloxacin were stocked in the inventory (at \$187.00 each), the patient stream only called for 74 tablets, or 1 bottle, accounting for a savings of nearly \$1,000.00.

Another cost-saving potential would be to procure items in smaller packages or bottles. Prednisone 10-mg tablets are supplied in bottles of 500. The patient stream called for 12 tablets. Likewise, medications such as ibuprofen, sulfamethoxazole, trimethoprim, and diphenhydramine also come in bottles of 500. Of these items, ibuprofen was called for most, with a requirement of 128 tablets. Smaller bottles would result in notable savings in weight, cube, and cost.

In the consumable section, new items for required tasks not previously satisfied accounted for \$945.09. Other modest increases in items like bed pads and self-adhesive thermometers accounted for the balance of the increase. The principle difference in the consumable section between the actual consumption by the patient stream and the low UM is due largely to packaging. For instance, otoscope speculums come in packages of 1000 and were called for 20 times in the patient stream. This is also true for items in high-volume packages like syringes and needles, which are called for in relatively low numbers compared with the amount in the packages.

## Discussion and Conclusion

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The GRL inventory was mapped to joint solutions from the ESP database. Where there was no existing materiel solution in the GRL inventory for required tasks, supplies and equipment were added to fulfill the requirement. Simulation of the inventory was performed using a patient stream of 85 patients and PM task frequencies were derived from SME input. Vetting the recommended changes in the AS remains to be completed by the SME panel before a final configuration can be forwarded.

The 318 patient conditions and 10 PMOs were associated with 120 clinical, PM, and nonclinical tasks in the model. The PCs and PMOs were identified by the SMEs as the kind of patients and services expected to be provided by the GRL. These PCs, PMOs, and associated tasks were in keeping with the joint solutions in the ESP relational database.

The SME panel will review the recommended configuration and changes from the existing UTC configuration (additions, deletions, and quantity changes).

During this review process, ESP will be available for the SME panel to map back any materiel items to those specific clinical tasks and PCs they are intended to support. This phase will be completed at the discretion of Air Mobility Command MEFPAC Manager.

Exporting ESP capabilities to inventories other than those of the Navy and Marine Corps proved to be a viable method of evaluating other pre-existing medical systems' capabilities. In previous efforts, the inventories for the U.S. Air Force MFST and the CCATT UTCs have been successfully included in ESP and simulated using an appropriate patient stream. ESP determines appropriate stock levels for equipment and consumable supplies, and in this case, indicated that an increase of weight, cube, and cost was appropriate for the patient stream and the PM task frequencies. Estimation is critical for a highly mobile, people-transportable system like the GRL. ESP is also a highly effective tool with which to configure resupply packs, ensuring medical materiel sustainment across the spectrum of medical care facilities, while maintaining their clinical capability.

Additionally, the materiel solutions found in the relational database are instrumental in ensuring joint requirements are satisfied consistently throughout the services and are in keeping with standards of care for operational platforms.

Finally, the ESP simulation creates an audit trail establishing clinical requirements for supply items in medical system inventories that enable logisticians, medical planners, and MEFPAC members to validate current inventories and perform analyses of projected changes to future inventories. It also serves as a leading consumption indicator, making it easier to identify resupply requirements to ensure sustainment.

The ESP is an invaluable resource when building a new AS or when configuration management calls for modifying an existing AS. ESP can determine the materiel requirements for emerging systems and has been used to develop numerous systems for the Navy and Marine Corps, including FRSS and ERCS, currently fielded and deployed in support of troops. This program is essential in configuration management because a planner is able to see the impact of deleting an item across the spectrum of tasks in that FA. Moreover, SMEs can review task profiles to determine if a task is considered critical, and if not, they can modify the treatment profile. The same concept holds true for supplies. SMEs can review the supplies for a specific task and make a clinical judgment as to whether a line item should be removed as no longer necessary to the task, or if its amount should be either reduced or increased.

## References

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1. *Joint Vision 2010*. Washington, DC: Office of the Joint Chiefs of Staff, Pentagon; 1998.
2. Galarneau MR, Konoske PJ, Pang G. *Projecting Medical Supply Requirements for a Far Forward Resuscitative Surgery System*. San Diego, CA : Naval Health Research Center, 1999. NHRC Report No. 99-29.
3. Galarneau MR, Konoske PJ, Tropeano A, Pang G. *Marine Corps En Route Care System (ERCS): Development of Patient Treatment and Supply Requirements*. San Diego, CA: Naval Health Research Center, 2002. NHRC Report No. 02-24.
4. Nix RE, Onofrio K, Konoske PJ, Galarneau MR, Hill M. *Air Force Mobile Forward Surgical Teams (MFST): Using the Estimating Supplies Program (ESP) to Validate Clinical Requirements*. San Diego, CA : Naval Health Research Center, 2004. NHRC Report No. 04-34.
5. Nix RE, Hill M, Onofrio K, Konoske PJ, Galarneau MR. *The Air Force Critical Care Air Transport Team (CCATT): Using the Estimating Supplies Program (ESP) to Validate Clinical Requirements*. San Diego, CA: Naval Health Research Center, 2005. NHRC Report No. 05-04.
6. Air Force Tactics Techniques and Procedures 3-42.24 [draft]. City, ST: Medical Global Reach Laydown Team, Headquarters Air Mobility Command, add YEAR here.

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## Appendix B. Global Reach Laydown List of Patient Conditions and Preventive Medicine Objectives

PC Number	Patient Condition Description
001	Cerebral Concussion Closed w/without Nondepressed Linear Skull Fracture Severe -Loss Of Consciousness from 2-12 Hours
002	Cerebral Concussion Closed w/without Nondepressed Linear Skull Fracture Moderate -Loss Of Consciousness Less Than 2 Hours
003	Cerebral Contusion Closed w/without Nondepressed Linear Skull Fracture Severe -Loss Of Consciousness Greater Than 24 Hours w/ Focal Neurological Deficit
004	Cerebral Contusion Closed w/without Nondepressed Linear Skull Fracture Moderate -Loss Of Consciousness from 12-24 Hours Without Focal Neurological Deficit
005	Cerebral Contusion Closed w/ Intracranial Hematoma with/without Non- Depressed Linear Skull Fracture - Severe - Large Hematoma (including Epidural Hematoma) with Rapidly Deteriorating Comatose Patient
006	Cerebral Contusion Closed w/ Nondepressed Linear Skull Fracture Severe -Loss Of Consciousness Greater Than 24 Hours with/without Focal Neurological Deficit
007	Cerebral Contusion Closed w/ Depressed Skull Fracture Severe - with Associated Intracerebral Hematoma and/or Massive Depression
008	Cerebral Contusion Closed w/ Depressed Skull Fracture Moderate -No Associated Hematoma or Significant Effect From Depression
009	Cerebral Contusion w/ Open Skull Fracture Severe - with Intracranial Fragments and/or Depressed Skull Fracture; Eyelid and Eyeball Laceration with Retained Intraocular Foreign Body
010	Cerebral Contusion w/ Open Skull Fracture Moderate - without Intracranial Fragments and/or Depressed Skull Fracture
011	Intracranial Hemorrhage Spontaneous Nontraumatic All Cases
013	Wound Scalp Open without Cerebral Injury or Skull Fracture Severe - Scalped w/Avulsion Of Tissue
014	Wound Scalp Open without Cerebral Injury or Skull Fracture Moderate - Scalp Laceration
015	Fracture Facial Bones Closed Exclusive Of Mandible Severe - Multiple Fractures
016	Fracture Facial Bones Closed Exclusive Of Mandible Moderate - Single Fracture
017	Wound Face Jaws and Neck Open Lacerated w/ Associated Fractures Excluding Spinal Fractures Severe - with Airway Obstruction
018	Wound Face Jaws and Neck Open Lacerated w/ Associated Fractures Excluding Spinal Fractures Moderate - Without Airway Obstruction; Eyelid and Eyeball Laceration w/ Retained Intraocular Foreign Body
019	Wound Face and Neck Open Lacerated Contused without Fractures Severe - w/ Airway Obstructions and/or Major Vessel Involvement
020	Wound Face and Neck Open Lacerated Contused without Fractures Moderate - without Airway Obstruction or Major Vessel Involvement
021	Eye Wound Severe -Loss Of Intraocular Fluid with/without Retinal Detachment, w/ Severe Lid Laceration, Eye Not Salvageable
022	Eye Wound Lacerated Moderate - without Retinal Detachment or Retinal Injury No Foreign Body Retained Without Loss Of Vitreous Fluid Patient has Hyphema Eye Salvageable
023	Hearing Impairment Severe
024	Hearing Impairment Moderate
025	Fracture Spine Closed without Cord Damage Unstable Lesion
026	Fracture Spine Closed without Cord Damage Stable Lesion
027	Fracture Spine Closed w/ Cord Damage Cervical Spine w/ Respiratory Involvement
028	Fracture Spine Closed w/ Cord Damage Below Cervical Spine (progressive)
029	Fracture Spine Open w/ Cord Damage Cervical Spine w/Respiratory Distress
030	Fracture Spine Open w/ Cord Damage Below Cervical Spine (progressive)
031	Intervertebral Disc Disorders w/ Nerve Root Compression Resistant To Bed Rest/traction
032	Intervertebral Disc Disorders w/ Nerve Root Compression Responding To Bed Rest/traction
033	Strains and Sprains Sacroiliac Region Severe - Non-ambulatory
034	Strains and Sprains Sacroiliac Region Moderate - Ambulatory

## Appendix B. Global Reach Laydown List of Patient Conditions and Preventive Medicine Objectives

PC Number	Patient Condition Description
035	Burn Thermal Superficial Head and Neck Greater Than 5% but Less Than 10% of Total Body Area and/or Eye Involvement
036	Burn Thermal Superficial Head and Neck Less Than 5% of Total Body Area and No Eye Involvement
037	Burn Thermal Partial Thickness Head and Neck Greater Than 5% but Less Than 10% Of Total Body Area and/or Eye Involvement
038	Burn Thermal Partial Thickness Head and Neck Less Than 5% of Total Body Area and No Eye Involvement
039	Burn Thermal Full Thickness Head and Neck Greater Than 5% but Less Than 10% of Total Body Area with Eye Involvement
040	Burn Thermal Full Thickness Head and Neck Less Than 5% of Total Body Area and No Eye Involvement
041	Fracture Clavicle Closed All Cases
042	Wound Shoulder Girdle Open w/ Bone Injury Severe - Joint Involvement
043	Wound Shoulder Girdle Open w/ Bone Injury Moderate - No Joint Involvement
044	Fracture Humerus Closed Upper Shaft All Cases
045	Wound Upper Arm Open Penetrating Lacerated without Fracture Severe - w/ Nerve and/or Vascular Injury
046	Wound Upper Arm Open Penetrating Lacerated without Fracture Moderate - without Nerve or Vascular Injury
047	Wound Upper Arm Open w/ Fractures and Nerve and Vascular Injury Arm Non-salvageable
048	Wound Upper Arm Open w/ Fractures and Nerve Injury No Vascular Injury Arm Salvageable
049	Fracture Radius and Ulna Closed Severe - Shafts Of Bones
050	Fracture Radius and Ulna Closed Moderate - Colles Fracture
051	Wound Forearm Open Lacerated Penetrating without Bone Nerve or Vascular Injury w/ Major Loss Of Muscle Tissue Severe - Requiring Major Debridement
052	Wound Forearm Open Lacerated Penetrating without Bone Nerve or Vascular Injury Moderate - Not Requiring Major Debridement
053	Wound Forearm Open Lacerated Penetrating w/ Fracture and w/ Nerve and Vascular Injury Forearm Not Salvageable
054	Wound Forearm Open Lacerated Penetrating w/ Fracture and w/ Nerve and Vascular Injury Forearm Salvageable
055	Fracture Hand or Fingers Closed Severe - Requiring Open Reduction
056	Fracture Hand and/or Fingers Closed Moderate - Not Requiring Closed Reduction
057	Wound Hand and/or Fingers Open Lacerated without Fractures Severe - Superficial and Deep Tendon Involvement
058	Wound Hand and/or Fingers Open Lacerated without Fractures Moderate - No Tendon Involvement or Limited to Sublimis Tendon Involvement
059	Wound Hand Open Lacerated Contused Crushed w/ Fracture(s) All Cases - Involving Fractures of Carpals and/or Metacarpals
060	Wound Fingers Open Lacerated Contused Crushed w/ Fracture(s) of Phalangeals Requiring Rehabilitation
061	Crush Injury Upper Extremity Severe - Limb Not Salvageable
062	Crush Injury Upper Extremity Moderate - Limb Salvageable
064	Dislocation Shoulder Closed All Cases
065	Dislocation/fracture Elbow Closed Acute All Cases
067	Dislocation Hand or Wrist Closed Acute
068	Dislocation Fingers Closed Acute
069	Amputation Hand Traumatic Complete All Cases
070	Amputation Forearm Traumatic Complete All Cases
071	Amputation Full Arm Traumatic Complete All Cases
072	Sprain Wrist Closed Acute All Cases
073	Sprain Thumb Closed Acute Severe

## Appendix B. Global Reach Laydown List of Patient Conditions and Preventive Medicine Objectives

PC Number	Patient Condition Description
074	Sprain Fingers Closed Acute Moderate - No Thumb Involvement
075	Burn Thermal Superficial Upper Extremities Greater Than 10% but Less Than 20% of Total Body Area Involved
076	Burn Thermal Superficial Upper Extremity Less Than 10% of Total Body Area Involved
077	Burn Thermal Partial Thickness Upper Extremities Greater Than 10% but Less Than 20% of Total Body Area Involved
078	Burn Thermal Partial Thickness Upper Extremity Less Than 10% of Total Body Area Involved
079	Burn Thermal Full Thickness Upper Extremities Greater Than 10% but Less Than 20% of Total Body Area Involved
080	Burn Thermal Full Thickness Upper Extremity Less Than 10% of Total Body Area Involved
081	Fracture Ribs Closed Severe - Multiple Fractures
082	Fracture Rib(s) Closed Moderate
083	Injury Lung Closed (blast Crush) w/ Pneumothorax Severe - One Lung With Pulmonary Contusion and Acute Severe Respiratory Distress
084	Injury Lung Closed (blast Crush) w/ Pneumothorax Moderate - One Lung w/ Pulmonary Contusion and Respiratory Distress
085	Wound Thorax (anterior or posterior) Open Superficial Lacerated Contused Abraded Avulsed Requiring Major Debridement
086	Wound Thorax (anterior or posterior) Open Superficial Lacerated Contused Abraded Avulsed Not Requiring Major Debridement
087	Wound Thorax (anterior or posterior) Open Penetrating w/ Associated Rib Fractures and Pneumothorax Acute Severe Respiratory Distress
088	Wound Thorax (anterior or posterior) Open Penetrating w/ Associated Rib Fractures and Pneumothorax Moderate Respiratory Distress
090	Burn Thermal Superficial Trunk Greater Than 20% but Less Than 30% of Total Body Area Involved
091	Burn Thermal Superficial Trunk Greater Than 10% but Less Than 20% of Total Body Area Involved
092	Burn Thermal Partial Thickness Trunk Greater Than 20% but Less Than 30% of Total Body Area Involved
093	Burn Thermal Partial Thickness Trunk Greater Than 10% but Less Than 20% of Total Body Area Involved
094	Burn Thermal Full Thickness Trunk Greater Than 20% but Less Than 30% of Total Body Area Involved
095	Burn Thermal Full Thickness Trunk Greater Than 10% but Less Than 20% of Total Body Area Involved
096	Wound Abdominal Wall (anterior or posterior) Lacerated Abraded Contused Avulsed without Entering Abdominal Cavity Severe - Requiring Major Debridement
097	Wound Abdominal Wall (anterior or posterior) Lacerated Abraded Contused Avulsed without Entering Abdominal Cavity Not Requiring Major Debridement
098	Wound Liver Closed Acute (crush Fracture) Major Liver Damage
099	Wound Liver Closed Acute (crush Fracture) Minor Liver Damage
100	Wound Spleen Closed Acute (crush Fracture) All Cases
101	Wound Abdominal Cavity Open w/ Lacerating Penetrating Perforating Wound to Large Bowel
102	Wound Abdominal Cavity Open w/ Lacerating Penetrating Perforating Wound to Small Bowel without Major or Multiple Resections
103	Wound Abdominal Cavity Open w/ Penetrating Perforating Wound of Liver Major Damage
104	Wound Abdominal Cavity Open w/h Penetrating Perforating Abdominal Wound With Lacerated Liver
105	Wound Abdominal Cavity Open w/h Penetrating Perforating Wound of Spleen
106	Wound Abdominal Cavity Open w/ Lacerated Penetrated Preforated Wound w/ Shattered Kidney
107	Wound Abdominal Cavity Open w/ Lacerated Penetrating Perforating Wound w/ Lacerated Kidney Initially Repaired but Subsequent Nephrectomy
108	Wound Abdominal Cavity Open w/ Lacerated Penetrating Perforating Wound w/ Shattered Bladder
109	Wound Abdominal Cavity Open w/Lacerated Penetrating Perforating Wound w/ Lacerated Bladder
110	Wound Buttocks Severe - Open Lacerated Penetrating Perforating and Avulsed

## Appendix B. Global Reach Laydown List of Patient Conditions and Preventive Medicine Objectives

PC Number	Patient Condition Description
111	Wound Buttocks Moderate - Open Lacerated Contused and Abraded
112	Displaced Fracture of Pelvis Closed With Associated Soft Tissue Damage and Pelvic Organ Damage
113	Non-displaced Fracture of Pelvis Closed With Associated Soft Tissue Damage
114	Wound Abdomen Open w/ Pelvic Fracture and Penetrating Perforating Wounds to Multiple Pelvic Structures (male or Female)
115	Wound Abdomen Open w/ Pelvic Fracture and Penetrating Perforating Wounds to Pelvic Colon Only (male or Female)
116	Wound External Genitalia Male Severe - Lacerated Avulsed Crushed
117	Wound External Genitalia Male Moderate - Abraded and Contused
118	Wound External Genitalia Female Severe - Lacerated Avulsed Crushed
119	Wound External Genitalia Female Moderate - Abraded Contused
120	Fracture Closed Femur Shaft All Cases
121	Wound Thigh Open without Fracture Nerve or Vascular Injury Requiring Major Debridement
122	Wound Thigh Open without Fracture Nerve or Vascular Injury Not Requiring Major Debridement
123	Wound Thigh Open Lacerated Penetrating Perforating w/ Fracture and Nerve/vascular Injury Limb Not Salvageable
124	Wound Thigh Open Lacerated Penetrating Perforating w/ Fracture and Nerve and/or Vascular Injury Limb Salvageable
125	Wound Knee Open Lacerated Penetrating Perforating w/ Joint Space Penetration Shattered Knee
126	Wound Knee Open Lacerated Penetrating Perforating w/ Joint Space Penetration Articular Cartilage Damage No Bone Injury
127	Fracture Closed Tibia and Fibula Shaft All Cases
128	Wound Lower Leg Open Lacerated Penetrating Perforating without Fractures Requiring Major Debridement
129	Wound Lower Leg Open Lacerated Penetrating Perforating without Fractures Not Requiring Major Debridement
130	Wound Lower Leg Open Lacerated Penetrating Perforating w/ Fracture and Nerve/vascular Injury Limb Not Salvageable
131	Wound Lower Leg Open Lacerated Penetrating Perforating w/ Fracture and Nerve and/or Vascular Injury Limb Salvageable
132	Fracture Ankle/foot Closed Displaced Requiring Reduction
133	Fracture Ankle/foot Closed Nondisplaced Not Requiring Reduction
134	Wound Ankle Foot Toes Open Lacerated Contused without Fractures but Requiring Major Debridement
135	Wound Ankle Foot Toes Open Lacerated Contused without Fractures Not Requiring Major Debridement
136	Wound Ankle Foot Toes Open Penetrating Perforating w/ Fractures and Nerve/vascular Injury Limb Not Salvageable
137	Wound Ankle Foot Toes Open Penetrating Perforating w/ Fractures and Nerve and/or Vascular Injury Limb Salvageable
138	Crush Injury Lower Extremity Limb Not Salvageable
139	Crush Injury Lower Extremity Limb Salvageable
140	Dislocation Hip Closed Acute All Cases
141	Tear Ligaments Knee Acute Complete Rupture
142	Tear Ligaments Knee Acute Incomplete Rupture
143	Dislocation Toes Closed Acute All Cases
144	Amputation Foot Traumatic Complete All Cases
145	Amputation Below Knee Traumatic Complete All Cases
146	Amputation Traumatic Complete Requiring Hip Disarticulation
147	Amputation Above Knee Traumatic Complete

## Appendix B. Global Reach Laydown List of Patient Conditions and Preventive Medicine Objectives

PC Number	Patient Condition Description
148	Sprain Ankle Closed Acute With Complete Ligament Rupture
149	Sprain Ankle Closed Acute Grade 2 Incomplete Ligament Rupture
150	Burn Thermal Superficial Lower Extremities and Genitalia Greater Than 30% but Less Than 40% of Total Body Area Involved
151	Burn Thermal Superficial Lower Extremity and Genitalia Greater Than 15% but Less Than 30% of Total Body Area Involved
152	Burn Thermal Partial Thickness Lower Extremities and Genitalia Greater Than 30% but Less Than 40% of Total Body Area Involved
153	Burn Thermal Partial Thickness Lower Extremity and Genitalia Greater Than 15% but Less Than 30% of Total Body Area Involved
154	Burn Thermal Full Thickness Lower Extremities and Genitalia Greater Than 30% but Less Than 40% of Total Body Area Involved
155	Burn Thermal Full Thickness Lower Extremity and Genitalia Greater Than 15% but Less Than 30% of Total Body Area Involved
156	Blisters Hand Fingers Foot Toes Due to Friction Acute Moderate - All Cases
157	Insect Bites and Stings (unspecified Body Area) w/ Systemic Symptoms and/or Respiratory Difficulty
158	Bites and Stings (unspecified Body Area) Moderate - Localized Symptoms
159	Miw Brain and Chest w/ Sucking Chest Wound and Pneumothorax
160	Miw Brain and Abdomen w/ Penetrating Perforating Wound Colon
161	Miw Brain and Abdomen w/ Penetrating Perforating Wound Kidney
162	Miw Brain and Abdomen w/ Penetrating Perforating Wound Bladder
163	Miw Brain and Abdomen w/ Shock and Penetrating Perforating Wound Spleen
164	Miw Brain and Abdomen w/ Shock and Penetrating Perforating Wound Liver
165	Miw Brain and Lower Limbs Requiring Bilateral Above Knee Amputations
166	Miw Chest w/ Pneumothorax and Abdomen w/ Penetrating Wound Colon
167	Miw Chest w/ Pneumothorax and Abdomen w/ Penetrating Perforating Wound Kidney
168	Miw Chest w/ Pneumothorax and Abdomen w/ Perforating Wound Bladder
169	Miw Chest w/ Pneumothorax and Abdomen w/ Penetrating Perforating Wound Spleen
170	Miw Chest w/ Pneumothorax and Abdomen w/ Penetrating Perforating Wound Liver
171	Miw Chest w/ Pneumothorax and Limbs w/ Fracture and Vascular Injury
172	Miw Abdomen w/ Penetrating Perforating Wound of Colon and Bladder
173	Miw Abdomen w/ Penetrating Perforating Wound of Colon and Spleen
174	Miw Abdomen w/ Penetrating Perforating Wound of Colon and Liver
175	Miw Abdomen and Limbs w/ Penetrating Perforating Wound of Colon and Open Fracture and Neurovascular Injury of Salvageable Lower Limb
176	Miw Abdomen and Pelvis w/ Penetrating Perforating Wound of Liver and Kidney
177	Miw Abdomen and Pelvis w/ Penetrating Perforating Wounds of Spleen and Bladder
178	Miw Abdomen Pelvis Limbs w/ Fracture and Neurovascular Injury Limb Salvageable and Penetrating Wound Kidney
179	Miw Abdomen Pelvis Limbs without Fracture or Neurovascular Injury and Penetrating Perforating Wound Bladder
180	Miw Abdomen and Lower Limbs w/ Fracture and Nerve Injury w/ Penetrating Wound of Spleen w/ Full Thickness Burns To Greater Than 20% of Tbsa
181	Miw Abdomen and Limbs without Fracture or Nerve Injury w/ Penetrating Wound of Liver
182	Miw Chest w/ Pneumothorax Soft Tissue Injury to Upper Limbs and Penetrating Wound of Brain
183	Miw Chest w/ Pneumothorax Soft Tissue Injury to Upper Limbs and Abdomen w/ Wound Of Colon
184	Miw Chest w/ Pneumothorax Pelvis and Abdomen w/ Wound of Colon and Bladder

## Appendix B. Global Reach Laydown List of Patient Conditions and Preventive Medicine Objectives

PC Number	Patient Condition Description
185	MIW Abdomen and Chest w/ Multiple Organ Damage
186	Multiple Nonperforating Fragment Wounds of Skin and Soft Tissue
187	Trench Foot Immersion Foot Severe - Vesicle Formation
188	Trench Foot Immersion Foot Moderate - No Vesicle Formation
190	Frostbite Full Skin Thickness or Deeper Involvement
191	Frostbite Less Than Full Skin Thickness
192	Hypothermia All Cases
193	Heat Stroke
194	Heat Exhaustion
195	Heat Cramps All Cases
196	Appendicitis Acute w/ Perforation Rupture Peritonitis
197	Appendicitis Acute without Perforation Rupture Peritonitis
198	Inguinal Hernia Complicated Direct or Indirect Sliding Incarceration of Bowel
199	Inguinal Hernia Uncomplicated Direct or Indirect No Sliding No Incarceration of Bowel or Bladder
200	Internal Derangement of Knee Chronic w/ Torn Meniscus and/or Ligament Laxity
201	Strain Lumbosacral Sacroiliac Joint Chronic All Cases
202	Eczema Dermatitis Seborrheic Contact Others Affecting Weight Bearing or Pressure Areas
203	Eczema Dermatitis Seborrheic Contact Others Not Affecting Weight Bearing Areas
204	Boils Furuncles Pyoderma Requiring Surgery
205	Boils Furuncles Pyoderma All Other Cases Calluses Corns Folliculitis Erythrasma
206	Cellulitis Involving Face or Weight Bearing Areas
207	Cellulitis Other Than Face or Weight Bearing Areas
208	Dermatophytosis Severe - Affecting Feet
209	Dermatophytosis All Other Cases (tineas/candidas/yeasts)
210	Pediculosis All Cases
211	Scabies All Cases
212	Pilonidal Cyst/abscess Requiring Major Excision
213	Cyst/abscess Allcases Including Minor Incision
214	Ingrown Toenails Bilateral w/ Secondary Infections Unresolvable At Echelon 2
215	Ingrown Toenails without Secondary Infection
216	Herpes Simplex and Zoster without Encephalitis All Types Of Viral Dermatitis
219	Hyperhidrosis All Cases
220	Blepharitis All Cases
221	Conjunctivitis Severe - All Cases
222	Conjunctivitis Moderate - All Cases
223	Corneal Ulcer
224	Corneal Abrasion
225	Iridocyclitis Acute Marked Visual Impairment
226	Iridocyclitis Acute Minimal Visual Impairment
227	Refraction and Accommodation Disorders Refraction Required
228	Refraction and Accommodation Disorders Replacement of Spectacles Required
229	Otitis Externa All Cases

## Appendix B. Global Reach Laydown List of Patient Conditions and Preventive Medicine Objectives

PC Number	Patient Condition Description
230	Otitis Media Acute Suppurative Including Eustacian Tubes
232	Infections Of The Nose & Paranasal Sinuses Including Viral Rhinitis
233	Upper Respiratory Infections Acute All Cases
234	Bronchitis Acute All Cases
235	Asthma With Disabling Symptoms or Repeated Attacks
236	Asthma Other Cases
239	Acute Respiratory Disease Severe
240	Acute Respiratory Disease Moderate
243	Food Poisoning All Organisms Disabling Symptoms
244	Food Poisoning All Organisms Moderate Symptoms
245	Diarrheal Disease Severe
246	Diarrheal Disease Moderate
247	Upper Gastrointestinal Hemorrhage, Gastritis or Ulcer
248	Gastritis Acute All Cases
249	Peptic Ulcer Gastric or Duodenal Penetrating and/or Perforating
250	Peptic Ulcer Gastric or Duodenal Uncomplicated
251	Regional Ileitis Disabling Symptoms Unresponsive To Treatment
252	Regional Ileitis Responds to Treatment
253	Helminthic Disease Including Trichinosis Ascariasis Giardiasis Tapeworm Hookworm Pinworm
255	Migraine All Cases
256	Hemorrhoidal Disease All Cases
258	Severe Hypertension
259	Ischemic Heart Disease
260	Phlebitis Deep Vein Involvement
262	Tenosynovitis Tendonitis Bursitis Epicondylitis
263	Meningo-encephalitis Uncomplicated
264	Meningo-encephalitis Complicated
265	Near Drowning without Cervical Spine Injury or Hypothermia All Cases
266	Toxic Inhalation Including Burn-related Respiratory Injuries Severe - All Cases
268	White Phosphorus Burns Resultant Partial Thickness Burns < 40% Tbsa All Cases
269	Sexually Transmitted Disease, Nsu, Macupurulent, Cervicitis, Tricomonas
270	Sexually Transmitted Disease, Genital Ulcers, Adenopathy, Chancroid, Genital Herpes Simplex, Lymphogranuloma, Venereum, Syphilis
271	Sexually Transmitted Disease, Gonorrhea, Chlamydia, Septic Arthritis, Pid
272	Glomerulonephritis Acute
273	Glomerulonephritis Chronic
274	Pyelonephritis Acute Secondary To Obstruction
275	Pyelonephritis Acute No Obstruction
276	Nephrotic Syndrome/Renal Failure All Cases
277	Renal/ureteral Calculus Causing Obstruction Impacted
278	Renal/ureteral Calculus Not Causing Obstruction
279	Epididymitis, Cystitis, Prostatitis, Orchitis, Including Testicular Torsion, All Cases

## Appendix B. Global Reach Laydown List of Patient Conditions and Preventive Medicine Objectives

PC Number	Patient Condition Description
280	Balanoposthitis All Cases
282	Infectious Mononucleosis All Cases
283	Hepatitis Infectious Viral All Cases
285	Cholecystitis Acute w/ Stones/cholecystitis All Cases
286	Pancreatitis Acute All Cases
287	Cirrhosis All Cases
289	Neoplasms Malignant
290	Neoplasms Benign
291	Abnormal Uterine Bleeding
292	Dysmenorrhea Amenorrhea
293	Pelvic Inflammatory Disease (pid) All Cases
294	Cervicitis Endocervicitis With Symptomatic Leukorrhea
295	Vulvovaginitis
297	Tubal Pregnancy All Cases
299	Abortion Spontaneous With Hemorrhage
301	Psychosis
302	Conduct Disorders
303	Non-psychotic Mental Disorders
304	Stress Reaction Severe Unstable Slow Improvement
305	Stress Reaction Severe Stable Slow Improvement
306	Alcohol Dependency Syndrome Moderate
307	Alcohol Misuse Simple Intoxication
308	Drug Dependency (other Than Alcohol) Severe
309	Drug Misuse (other Than Alcohol) Mild or Moderate
310	Stress Reaction Mild/moderate
311	Eye Wound Lacerated Penetrated w/ Retinal Injury Eye Salvageable
312	Wound Knee Open Lacerated Penetrating Perforating w/ Joint Space Penetration No Bone or Articular Cartilage Injury
313	Wound Abdominal Cavity Open w/ Lacerated Penetrating Perforating Wound Kidney Moderate - Kidney Salvageable
314	Stress Reaction Severe Unstable Delayed Improvement
315	Stress Reaction Severe Unstable Persisting
316	Alcohol Dependency Severe - Impending or Actual Dts
317	Drug Misuse (other Than Alcohol) Severe - Atypical No Dependency
318	Stress Reaction Severe - Rapid Improvement
319	Wound Fingers Open Lacerated Contused Crushed w/ Fracture(s) of Phalangeals Not Requiring Rehabilitation
320	Dislocation/subluxation Temporomandibular Joint without Fracture Chronic Requiring Correction
321	Dislocation/subluxation Temporomandibular Joint without Fracture Acute Initial Injury
322	Fracture Mandible with/without oral Laceration without Airway Involvement Unstable Severe Requiring Open Reduction
323	Fracture Mandible with/without oral Laceration without Airway Involvement Mild Displacement Stable
324	Stress Reaction Severe Stable - Delayed Improvement
325	Stress Reaction Severe Stable Persisting

## Appendix B. Global Reach Laydown List of Patient Conditions and Preventive Medicine Objectives

PC Number	Patient Condition Description
328	Animal Bites and Rabies Exposure
329	Trachoma All Cases
330	Schistosomiasis All Cases
331	Malaria Severe - All Species
332	Malaria Moderate - All Species
333	Febrile Illness Acute Severe - Except Malaria and Pneumonia
334	Febrile Illness Acute Moderate
335	Snake Bite
339	Cutaneous Ulcers Including Leishmaniasis
346	Eye Wound Directed Energy Induced (laser) Severe of Macula and/or Optic Nerve, w/ Vitreous Blood, Severe Visual Lose, One or Both Eyes.
347	Eye Wound Directed Energy Induced (laser/rfr) Moderate to Severe, Posterior, Nonmacular, Nonoptic Nerve, Visual Loss Secondary to Vitreous Blood.
348	Eye Wound Directed Energy Induced (laser) Moderate Nonmacular, Nonoptic Nerve, No Vitreous Blood.
349	Eye Wound Directed Energy Induced (laser/rfr) Mild to Moderate, Anterior, Pain w/ Photophobia and Disruption of Corneal Integrity.
350	Eye Wound Directed Energy Induced (laser/rfr) Mild Flash Blindness No Permanent Injury

PMO Number	Preventive Medicine Objective
950	Water Sanitation
951	Pest Control
952	Heat/Cold Injury Prevention
953	Communicable Disease Control
954	Food Sanitation
955	Common Area Sanitation
956	Berthing Sanitation
957	Waste Management
958	Conduct Training
959	Industrial Hygiene

## Appendix C. GRL Clinical, Preventive Medicine, and Nonclinical Tasks

001	TRIAGE
002	ASSESSMENT AND EVALUATION OF PATIENT STATUS
005	REMOVE AND COLLECT BELONGINGS, VALUABLES AND EQUIPMENT
006	ESTABLISH ADEQUATE AIRWAY OROPHARYNGEAL
007	EMERGENCY CRICOTHYROIDOTOMY
010	NEUROLOGICAL ASSESSMENT
011	STABILIZE NECK (COLLAR/SPINE BOARD)
017	SUCTION (ORAL/TRACH/ENDO)
019	EMERGENCY CONTROL OF HEMORRHAGE
022	O <sub>2</sub> ADMINISTRATION SETUP
023	O <sub>2</sub> ADMINISTRATION CONTINUOUS (NASAL/MASK)
024	VITAL SIGNS
032	SET-UP PULSE OXIMETER
044	SETUP DRAINAGE BOTTLES/PLEUREVAC
046	MAINTAIN CHEST TUBE SUCTION (EQUIP TSK)
049	START/CHANGE IV INFUSION SITE
050	ADMINISTER IV FLUID
063	VENOUS CUTDOWN
068	IV INFUSION TERMINATE
070	BOWEL SOUNDS ASSESS
071	INSERT NG TUBE
073	PERFORM NG/OG SUCTION
075	IRRIGATE NG TUBE
076	GASTRIC LAVAGE
079	CATHETERIZATION, FOLEY
082	MEASURE/RECORD INTAKE/OUTPUT
084	SHAVE AND PREP
085	WOUND IRRIGATION
086	CLEAN AND DRESS WOUND
091	APPLY ICE/HOT PACKS
092	APPLY ACE BANDAGE
093	EXTREMITY ELEVATION
096	APPLY SLING
098	APPLY SPLINT/IMMOBILIZE INJURY
103	CIRCULATION CHECK
108	MINOR SURGICAL PROCEDURE (DEBRIDE/SUTURE/INCISION)
110	TEST VISION
121	EYE IRRIGATION
123	EYE CARE (DRESSINGS/EYE PATCH)
124	EAR CARE IRRIGATION
125	SPONGE/HYPERTHERMIA TREATMENT
126	SEIZURE CARE/PRECAUTIONS
127	PATIENT RESTRAINT (GAUZE, TIES)
128	PATIENT RESTRAINT, 4 POINT, LEATHER (COMBATIVE PATIENT)
129	PERFORM RESTRAINED PATIENT CONTROL
142	ORDER AND DOCUMENT APPROPRIATE MEDS/TREATMENT
145	ADMINISTER APPROPRIATE MEDICATION
148	OBTAIN SPECIMEN FOR LABORATORY ANALYSIS
151	GYNECOLOGICAL EXAMINATION
204	PROVIDE PATIENT SAFETY SPECIAL WATCH
221	PERICARDIOCENTESIS
244	HEMACULT TEST- FECES/EMESIS/GASTRIC

## Appendix C. GRL Clinical, Preventive Medicine, and Nonclinical Tasks

245	URINE TESTING
247	PLACE IN RESPIRATORY ISOLATION
248	FORCE FLUIDS
278	ARRANGE FOR PATIENT EVACUATION
279	ARRANGE AND DOCUMENT RETURNS TO DUTY/FLIGHT STATUS
280	PATIENT DISCHARGE INSTRUCTIONS
359	INDUCE LOCAL ANESTHESIA
453	CLOSED REDUCTION OF DISLOCATION
739	REDUCE FRACTURE
740	REDUCE DISLOCATION
748	CLEAN UP
802	INITIAL/SUBSEQUENT NON-SURG DEBRIDE OF BURN/WOUND
999	MORGUE CARE
A2	REMOVE CASUALTY FROM DANGER
A6	APPLY TOURNIQUET
A10	POSITION FOR POSTURAL DRAINAGE/PLACE IN COMA POSITION
A12	OCCCLUDE SUCKING CHEST WOUND
A30	WET/COLD INJURY THERAPY
D2940	SEDATIVE FILLING
Z014	INTUBATION
Z027	CARDIO ARREST RESUSCITATION
Z037	BAG VALVE MASK SETUP
Z039	PERFORM VENTILATION WITH BAG VALVE MASK
Z042	INSERT CHEST TUBE
Z045	CHANGE DRAINAGE BOTTLES/PLEUREVAC
Z083	EXPOSE PATIENT FOR EXAM
Z094	EXTREMITY TRACTION, APPLICATION/ADJUST
Z108	FACILITY SITE SET UP
Z277	PREPARE FOR EVAC GROUND/AIR
Z499	EVALUATE POTENTIAL POTABLE WATER SOURCES
Z500	SELECT POTABLE WATER SOURCE SITE
Z504	OBTAIN WATER SAMPLE/CONDUCT pH TESTING
Z505	OBTAIN WATER SAMPLE/CONDUCT CHLORINE TESTING
Z506	OBTAIN WATER/ICE SAMPLE/CONDUCT BACTERIOLOGICAL TESTING
Z508	CHEMICAL AGENT WATER TESTING (NERVE, MUSTARD, CYANIDE, LEWISITE)
Z541	CONDUCT VECTOR BORNE DISEASE ASSESSMENT
Z548	CONDUCT PEST AND VECTOR IDENTIFICATION
Z580	MONITOR HEAT STRESS CONDITIONS
Z600	SCREEN TREATMENT LOGS FOR INFECTIOUS DISEASE CASES
Z601	COMPILE/REPORT INFECTIOUS DISEASE STATISTICS
Z607	CONDUCT FOOD BORNE ILLNESS INVESTIGATION
Z611	DISPENSE STD PROPHYLAXIS/CONTRACEPTIVE
Z640	SELECT SITE OF MESSING & FOOD STORAGE AREAS & DETE
Z642	CONDUCT INSPECTIONS OF MESSING & FOOD STORAGE AREAS
Z644	EVALUATE FOOD SOURCING AND TRANSPORT
Z660	MAKE RECOMMENDATIONS FOR CAMP SETUP
Z661	CONDUCT INSPECTIONS OF COMMON USE AREAS
Z662	CONDUCT INSPECTIONS OF LAUNDRY/SHOWER SERVICES
Z663	CONDUCT INSPECTIONS OF LATRINES / HANDWASHING SITE
Z680	SELECT BERTHING SITE
Z681	CONDUCT INSPECTIONS OF BERTHING AREAS

## Appendix C. GRL Clinical, Preventive Medicine, and Nonclinical Tasks

Z700	ASSIST IN SELECTION OF WASTE DISPOSAL SITES
Z701	CONDUCT INSPECTIONS OF WASTE DISPOSAL SITES
Z790	DOCUMENT / REPORT INSECTION RESULTS
Z791	MAKE RECOMMENDATIONS/TROUBLESHOOT DISCREPANCIES
Z910	GATHER &ANALYSE INTEL DATA ON SURVEY AREA
Z911	CONDUCT VISUAL SITE INSPECTION AND RECORD RESULTS
Z912	DEVELOP SITE SAMPLING PLAN
Z913	MAP OUT SITE INSPECTION GRID
Z914	LABEL & RECORD SAMPLE CONTAINER
Z918	COLLECT & INTERPRET AMBIENT AIR SAMPLE
Z924	COLLECT SOIL SAMPLE/CONDUCT TEST
Z926	CONDUCT RADIOLOGICAL SAMPLING/MONITORING
Z930	ASSESMENT OF HAZARDOUS WASTE
ZZ01	INDUCE VOMITTING
ZZ02	STAIN EYES (FLOURESCIN STAIN/WOODS UV LAMP)
ZZ03	NEEDLE THORACOSTOMY
ZZ16	REPAIR EYE GLASSES

## Appendix D. GRL Patient Stream

PC	PC DESCRIPTION	PROBABILITY	80th%
246	Diarrheal Disease Moderate	12.7564	10
233	Upper Respiratory Infections Acute All Cases	6.4503	6
332	Malaria Moderate - All Species	4.6662	4
207	Cellulitis Other Than Face or Weight Bearing Areas	3.8549	3
334	Febrile Illness Acute Moderate	3.7799	5
203	Eczema Dermatitis Seborrheic Contact Others Not Affecting Weight Bearing Areas	2.6502	3
206	Cellulitis Involving Face or Weight Bearing Areas	2.5298	3
234	Bronchitis Acute All Cases	2.3568	3
279	Epididymitis, Cystitis, Prostatitis, Orchitis, Including Testicular Torsion, All Cases	2.2677	2
240	Acute Respiratory Disease Moderate	2.2328	2
244	Food Poisoning All Organisms Moderate Symptoms	1.8633	2
290	Neoplasms Benign	1.7652	2
256	Hemorrhoidal Disease All Cases	1.7652	2
188	Trench Foot Immersion Foot Moderate - No Vesicle Formation	1.6665	1
199	Inguinal Hernia Uncomplicated Direct or Indirect No Sliding No Incarceration of Bowel or Bladder	1.6048	1
278	Renal/ureteral Calculus Not Causing Obstruction	1.6036	1
310	Stress Reaction Mild/moderate	1.5	1
149	Sprain Ankle Closed Acute Grade 2 Incomplete Ligament Rupture	1.1693	1
197	Appendicitis Acute without Perforation Rupture Peritonitis	1.1233	1
339	Cutaneous Ulcers Including Leishmaniasis	1.0784	1
142	Tear Ligaments Knee Acute Incomplete Rupture	1.0442	1
280	Balanoposthitis All Cases	1.0259	1
258	Severe Hypertension	1.0115	1

## Appendix D. GRL Patient Stream

PC	PC DESCRIPTION	PROBABILITY	80th%
239	Acute Respiratory Disease Severe	0.8683	1
202	Eczema Dermatitis Seborrheic Contact Others Affecting Weight Bearing or Pressure Areas	0.8432	1
064	Dislocation Shoulder Closed All Cases	0.7812	1
318	Stress Reaction Severe - Rapid Improvement	0.78	1
253	Helminthic Disease Including Trichinosis Ascariasis Giardiasis Tapeworm Hookworm Pinworm	0.7345	1
020	Wound Face and Neck Open Lacerated Contused Without Fractures Moderate - without Airway Obstruction or Major Vessel Involvement	0.7063	1
058	Wound Hand and/or Fingers Open Lacerated Without Fractures Moderate - No Tendon Involvement or Limited to Sublimis Tendon Involvement	0.6798	1
129	Wound Lower Leg Open Lacerated Penetrating Perforating without Fractures Not Requiring Major Debridement	0.6639	1
302	Conduct Disorders	0.6638	1
219	Hyperhidrosis All Cases	0.6625	1
132	Fracture Ankle/foot Closed Displaced Requiring Reduction	0.6392	1
127	Fracture Closed Tibia and Fibula Shaft All Cases	0.6378	1
014	Wound Scalp Open without Cerebral Injury or Skull Fracture Moderate - Scalp Laceration	0.6208	1
209	Dermatophytosis All Other Cases (tineas/candidas/yeasts)	0.6023	1
303	Non-psychotic Mental Disorders	0.5775	1
055	Fracture Hand or Fingers Closed Severe - Requiring Open Reduction	0.5638	1
200	Internal Derangement Of Knee Chronic With Torn Meniscus and/or Ligament Laxity	0.5555	1
245	Diarrheal Disease Severe	0.4837	1
135	Wound Ankle Foot Toes Open Lacerated Contused without Fractures Not Requiring Major Debridement	0.4354	1
275	Pyelonephritis Acute No Obstruction	0.4334	1
292	Dysmenorrhea Amenorrhea	0.4332	1
141	Tear Ligaments Knee Acute Complete Rupture	0.4126	1
333	Febrile Illness Acute Severe - Except Malaria And Pneumonia	0.3737	1

## Appendix D. GRL Patient Stream

PC	PC DESCRIPTION	PROBABILITY	80th%
232	Infections of the Nose & Paranasal Sinuses including Viral Rhinitis	0.3721	1
052	Wound Forearm Open Lacerated Penetrating without Bone Nerve or Vascular Injury Moderate - Not Requiring Major Debridement	0.3359	1
002	Cerebral Concussion Closed w/without Nondepressed Linear Skull Fracture Moderate - Loss of Consciousness < 2 Hours	0.3066	1
274	Pyelonephritis Acute Secondary to Obstruction	0.3033	1
273	Glomerulonephritis Chronic	0.3033	1

## Appendix E. Preventive Medicine Task Frequencies

TASK	DAILY	WEEKLY	ONCE	NUMBER OF SITES
EVALUATE POTENTIAL POTABLE WATER SOURCES			1	2
OBTAIN WATER SAMPLE/CONDUCT pH TESTING	1			2
OBTAIN WATER SAMPLE/CONDUCT CHLORINE TESTING	1			2
OBTAIN WATER/ICE SAMPLE/CONDUCT BACTERIOLOGICAL TESTING		13*		4*
CHEMICAL AGENT WATER TESTING (NERVE, MUSTARD, CYANIDE, LEWISITE)			2	2
CONDUCT VECTOR BORNE DISEASE ASSESSMENT		1		1
CONDUCT PEST AND VECTOR IDENTIFICATION		1		1
MONITOR HEAT STRESS CONDITIONS	10			1
SCREEN TREATMENT LOGS FOR INFECTIOUS DISEASE CASES	1			1
CONDUCT FOOD BORNE ILLNESS INVESTIGATION			1**	1**
DISPENSE STD PROPHYLAXIS/CONTRACEPTIVE	1**			1**
SELECT SITE OF MESSING & FOOD STORAGE AREAS			1	1
CONDUCT INSPECTIONS OF MESSING & FOOD STORAGE AREAS	1			
EVALUATE FOOD SOURCING AND TRANSPORT			1**	1**
MAKE RECOMMENDATIONS FOR CAMP SETUP			1	2
CONDUCT INSPECTIONS OF COMMON USE AREAS	1			1
CONDUCT INSPECTIONS OF LAUNDRY/SHOWER SERVICES	1			1
CONDUCT INSPECTIONS OF LATRINES / HANDWASHING SITE	1			1
SELECT BERTHING SITE			1	1
CONDUCT INSPECTIONS OF BERTHING AREAS		1		1
ASSIST IN SELECTION OF WASTE DISPOSAL SITES			1	2
CONDUCT INSPECTIONS OF WASTE DISPOSAL SITES		1		2
DOCUMENT/REPORT INSPECTION RESULTS		1		2
MAKE RECOMMENDATIONS/TROUBLESHOOT DISCREPANCIES	1**			1**
GATHER & ANALYZE INTEL DATA ON SURVEY AREA			1	2
CONDUCT VISUAL SITE INSPECTION AND RECORD RESULTS			1	2
DEVELOP SITE SAMPLING PLAN			1	2
MAP OUT SITE INSPECTION GRID			1	2
LABEL & RECORD SAMPLE CONTAINER			1	50
COLLECT & INTERPRET AMBIENT AIR SAMPLE			10	2
COLLECT SOIL SAMPLE/CONDUCT TEST			8	2
CONDUCT RADIOLOGICAL SAMPLING/MONITORING			18	2
ASSESSMENT OF HAZARDOUS WASTE			1	10

\* Includes bottled water sampling; with a shipment of 1000 bottles/week, 10 samples are taken. The four sites are two potable water sources (one sample each), the bottled water storage area (10 samples), and any ice shipments (one sample).

\*\* Tasks performed on an “as needed” basis.

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
EQUIPMENT											
E	5140004736256	BAG TOOL SATCHEL	EA	1	1	1.24	0.16	\$17.67	1.24	0.16	\$17.67
G	6530007710105	BASIN WASH CORROSION RESISITING STEEL 7QT	EA	5	0	12.25	0.94	\$153.70	0	0	\$0.00
E	6150011761801	CABLE ASSEMBLY POWER ELECTRICAL 16 AWG 125V AC 25'	EA	2	2	5.1	0.65	\$30.30	5.1	0.65	\$30.30
A	7420014124136	CALCULATOR ELECTRONIC	EA	1	1	0.18	0.009	\$19.98	0.18	0.009	\$19.98
G	7420011828535	CALCULATOR ELECTRONIC SOLAR CELL 8 DIGIT LIQ	EA	1	0	1.15	0.15	\$13.35	0	0	\$0.00
E	6720NCM010143	CARRYING CASE FOR DIGITAL CAMERA	EA	1	1	0.5	0.05	\$50.00	0.5	0.05	\$50.00
E	8145NCM041047	CASE HARDIGG	EA	2	2	10	10	\$1,644.00	10	10	\$1,644.00
C	6545014995676	CASE MEDICAL INSTRUMENT & SUPPLY SET 33.75X21.00X13.50IN PLASTIC	EA	1	2	39	2	\$772.00	78	4	\$1,544.00
C	6545015085584	CASE MEDICAL INSTRUMENT & SUPPLY SET PLAS 32.75"X20.88"X40.49"	EA	2	2	43	36	\$822.00	86	36	\$822.00
E	6515014776093	CASE NARCOTICS 10.75"O/A LG 9.75"W 5.0"H BLACK 50 LBS LOAD CAP	EA	1	1	0.8	0.69	\$28.52	0.8	0.69	\$28.52
E	6545015118286	CASE TRAUMA PARAMEDIC CORDURA BLACK 5X12X14	EA	4	4	0.76	0.76	\$385.00	0.76	0.76	\$385.00
E	7105014620602	CHAIR FOLDING SELF CONTAINED W/PADDED BACK&SEAT & CARRY BAG	EA	4	4	26	11.2	\$79.96	26	11.2	\$79.96
H	6540005988075	CHART SET VISON ACUITY TEST DIST.VISN 3S	SE	1	0	5	0.53	\$12.53	0	0	\$0.00
E	7520002815918	CLIP BOARD FILE 9X12.5IN COMPOSITION BOARD BACK	EA	3	3	0.03	0.03	\$4.80	0.03	0.03	\$4.80
E	6630010273914	COMPARATOR COLOR: HYDROGEN ION AND RESIDUAL CHLORINE	EA	1	1	2.3	0.209	\$110.85	2.3	0.209	\$110.85
E	6520010056888	CURETTE PERIODONTAL GRACEY 13&14 CRES 6.250-6.562"L DBLE-ENDED	EA	1	1	0.13	0.002	\$7.02	0.13	0.002	\$7.02
H	6515014794272	DEFIBRILLATOR, EXTERNAL, AUTOMATIC W/PHYSICIAN OVERRIDE	EA	1	0	5.2	0.28	\$3490.00	0	0	\$0.00

**Legend:**

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E= Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
E	6545014331515	DENTAL KIT EMERGENCY	EA	2	2	1	0.04	\$29.90	1	0.04	\$29.90
B	6665015210469	DETECTOR KIT,GAS	KT	1	1	8.25	0.55	\$2,100.00	8.25	0.55	\$2,100.00
E	6720NCM990811	DIGITAL CAMERA	EA	1	1	3	0.05	\$900.00	3	0.05	\$900.00
E	6520005281000	EXPLORER DENTAL CRES #23 5.875-6.125"LG	EA	2	2	0.12	0.006	\$8.16	0.12	0.006	\$8.16
B	7310014541281	EXTENSION CORD MBU 110V AC 50 FEET IN LENGTH 12 GAUGE	EA	2	2	3.3	1.1	\$180.74	3.3	1.1	\$180.74
E	6230014535688	FLASHLIGHT 2.25 VOLT DC LAMP RATING	PG	1	1	1.25	0.25	\$13.34	1.25	0.25	\$13.34
G	6230002648261	FLASHLIGHT 8.5INx2.25IN DIA 3DC VOLT PLAS	EA	1	0	0.1	0.001	\$4.94	0	0	\$0.00
A	6230002705418	FLASHLIGHT STRAIGHT 2.25X9IN 3V DC PLAS FIXED&FLASH WATERTIGHT	EA	4	4	4.6	0.6	\$25.52	4.6	0.6	\$25.52
H	6515012064688	FORCEPS EYE JEWELER CURVED FINE PT 110MM LG	EA	1	0	0.04	0.002	\$15.44	0	0	\$0.00
E	6515003323300	FORCEPS TRACHEAL TUBE MAGILL FENESTRATED & SERR ADL W/O LIGHT	EA	1	1	0.65	0.05	\$9.01	0.65	0.05	\$9.01
E	5895015079409	GOGGLES,INDUSTRIAL	EA	1	1	0.03	0.03	\$9.95	0.03	0.03	\$9.95
E	4240001906432	GOGGLES,INDUSTRIAL	PR	3	3	3	3	\$4.74	3	3	\$4.74
E	5120008925485	HAMMER HAND CARPENTERS NAILING CURVED CLAW FIBERGLASS HANDLE	EA	1	1	1	0.1	\$13.82	1	0.1	\$13.82
B	6515003406700	HAMMER REFLEX LARGE 7-8" 2 X .75" HEAD THK TRIANGULAR RUBBE	EA	1	1	0.39	0.034	\$2.20	0.39	0.034	\$2.20
G	6515003447800	HANDLE SURG KNIFE BLADE SZ 3 NARROW NOSE	EA	1	0	0.08	0.002	\$10.05	0	0	\$0.00
A	6515011417469	HANDLE SURG KNIFE DETACHABLE BLADE SZ 3L U/W NO. 10 11 12 15 CRS	EA	1	1	0.125	0.018	\$12.91	0.125	0.018	\$12.91
E	6665006824765	ICUBATOR WATER TESTING KIT BACTERIOLOGICAL:	EA	1	1	20	2	\$3,147.71	20	2	\$3,147.71
G	6640014392807	INCUBATOR BACTERIOL RECHARGEABLE NICKEL-CADIU	EA	1	0	20	1	\$1,425.00	0	0	\$0.00
H	6515005842893	INFUSOR PRESS BLOOD COLLECTING-DISPNSG BAG RUBBER BULB	EA	4	0	3	0.252	\$519.76	0	0	\$0.00

**Legend:**

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E= Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
G	6515013448487	INJECTOR TUBE REUSABLE 1ML & 2ML NDL UNITS	EA	2	0	0.22	0.13	\$8.62	0	0	\$0.00
A	6515015213074	INJECTOR TUBE W/PLUNGER ROD 1ML & MED NEEDLE CART 1S	EA	2	20	0.04	0.06	\$11.06	0.4	0.6	\$110.60
A	5110014257570	KNIFE MULTI-TOOL FOLDING POCKET	EA	4	4	0.4	0.004	\$157.68	0.4	0.004	\$157.68
G	5110013218805	KNIFE POCKET BTL/CAN OPEN/NDLE NOSE/WIRE CUT	EA	1	0	0.55	0.015	\$42.03	0	0	\$0.00
E	7035NCM000342	LAPTOP DVD CLIENT	EA	2	2	4	1.5	\$7,592.00	4	1.5	\$7,592.00
E	7035NCM010065	LAPTOP SHIPPING/STORAGE CASE	EA	2	2	4	1.5	\$500.00	4	1.5	\$500.00
A	6515006165052	LARYNGOSCOPE MACINTOSH INFANT/CHILD/ADL 4 DET BLADES	EA	1	1	3.96	0.16	\$50.25	3.96	0.16	\$50.25
G	6515014509790	LARYNGOSCOPE SET ENT POCKET WATERPROOF LIGHT GREEN SYS	EA	4	0	2	1.2	\$214.00	0	0	\$0.00
E	6530014515144	LIGHT ULTRAVIOLET SPECIMEN EXAMINING BATTERY POWER 4 WATT	EA	1	1	1.25	0.25	\$28.00	1.25	0.25	\$28.00
C	6530014325114	LITTER RIGID FOLDING RAVEN POLYPROPYLENE COVER	EA	2	2	22	0.04	\$510.00	22	0.04	\$510.00
E	4460015185099	M10X PURIFIER REPLACEMENT CARRYI	EA	2	2	0.5	0.05	\$13.90	0.5	0.05	\$13.90
E	6650NCM000200	MICROSCOPE, POCKET SIZE	EA	1	1	0.1	0.01	\$59.00	0.1	0.01	\$59.00
E	6665NCM041112	MONITOR,GAS PHOTOIONIZATION DETECTOR (PID) HANDHELD	EA	2	2	10	0.8	\$7,320.00	10	0.8	\$7,320.00
G	6515014586057	OTOSCOPE & OPHTHALMOSCOPE SET BASIC SOFTCASE	EA	1	0	0.55	0.12	\$89.00	0	0	\$0.00
G	6515014586178	OTOSCOPE & OPHTHALMOSCOPE SET DELUXE SOFT	EA	3	0	16.65	0.336	\$840.00	0	0	\$0.00
A	6515001656544	OTOSCOPE & OPHTHALMOSCOPE SET DELUXE SOFTCASE	SE	2	2	1.52	0.032	\$275.64	1.52	0.032	\$275.64
G	6515014660971	OXIMETER PULSE FINGER BATTERY OP NONIN	EA	2	0	1.1	0.1	\$700.00	0	0	\$0.00
A	6515014189022	OXIMETER PULSE HAND-HELD BATTERY POWERED (NON-RECHARGEABLE)	EA	1	1	0.625	0.01	\$631.35	0.625	0.01	\$631.35

**Legend:**

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E = Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
G	6515014626143	OXYGEN ADMIN KIT, CASE, 3-PORT REGULATOR, DEMAND VALVE, HOSE & MASK	EA	3	0	60	3.75	\$1,960.47	0	0	\$0.00
A	6680012346789	OXYGEN REGULATOR PRESSURE LIGHTWEIGHT W/INTEGRAL FLOW CONTROLLER	EA	2	2	2.24	0.111	\$239.52	2.24	0.111	\$239.52
E	6530014940568	PACK MEDICAL SUPPLY FOLDABLE	EA	1	1	1.15	0.18	\$500.00	1.15	0.18	\$500.00
H	6530013171131	PAD HEATING CHEMICAL PLASTIC CHEMICAL REACTION OF 110DEG F	EA	4	0	7.2	0.008	\$9.88	0	0	\$0.00
E	7035NCM010206	PALM PILOT	EA	2	2	0.2	0.02	\$800.00	0.2	0.02	\$800.00
E	7520002271451	PENCIL SHARPENING MACHINE	EA	2	2	0.125	0	\$1.54	0.125	0	\$1.54
E	8315007877000	PIN SAFETY BRASS NICKEL 2" LONG SZ 3 720S	EA	1	1	0.19	0.005	\$23.57	0.19	0.005	\$23.57
E	5120004941911	PLIER WRENCH VISE GRIPS w/CUTTER 8.5IN LG	EA	1	0	1.2	0.014	\$9.46	0	0	\$0.00
E	5120002241567	PLIERS SLIP JOINT 6.0"O/A LG A78 STR THIN NOSE	EA	1	1	0.06	0.003	\$5.50	0.06	0.003	\$5.50
E	6520005365350	PLUGGER PLASTIC FILLING DENTAL CRES OR BRASS WOODSON #1 7"O/A LG	EA	1	1	0.08	0.003	\$11.49	0.08	0.003	\$11.49
E	6520005365405	PLUGGER PLASTIC FILLING DENTAL CRES OR BRASS WOODSON #2 7"O/A LG	EA	1	1	0.1	0.003	\$6.61	0.1	0.003	\$6.61
E	7035NCM010072	PORTABLE PRINTER	EA	2	2	10	2	\$740.00	10	2	\$740.00
E	5820NCM020180	PORTABLE TELEPHONE, IRIDIUM MODEL 9505 WITH ACCESSORIES	EA	1	1	5	0.5	\$4,344.00	5	0.5	\$4,344.00
G	6150011768446	POWER STRIP ELECTRICAL OUTLET 13IN LG 120V	EA	1	0	0.1	0.001	\$15.36	0	0	\$0.00
A	5920014959613	POWER STRIP SURGE SUPPRESSOR THREE LINE 6' CORD W/MTG HARDWARE	EA	2	2	1.1	0.24	\$20.00	1.1	0.24	\$20.00
E	7025NCM990010	PRINTER COMPUTER CABLE	EA	2	2	1	0.1	\$40.00	1	0.1	\$40.00
E	6665013204712	RADIAC SET	EA	1	1	2.2	0.2	\$5,200.00	2.2	0.2	\$5,200.00
E	5825015089698	RECEIVER RADIO NAVIGATION HANDHELD PORTABLE	EA	1	1	1.5	0.12	\$743.90	1.5	0.12	\$743.90

**Legend:**

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E = Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
H	6530007884010	RESTRAINT SET WRIST & ANKLE W/CARRYING CASE	SE	2	0	5.78	0.3	\$204.34	0	0	\$0.00
A	6515012476600	RESUSCITATOR HAND OPERATED ADULT/CHILD WITH CARRYING CASE	EA	2	2	6.8	0.66	\$197.30	6.8	0.66	\$197.30
G	6515012045394	RESUSCITATOR HAND OPERATED IPP HIGH O2 SMALL & MED ADULT FACE MASKS W/CASE	EA	4	0	4.8	0.06	\$606.00	0	0	\$0.00
E	6515014776134	ROLL PACK COMFORT ORGANIZE PROTECTS & TRANS PATIENT ITEM	EA	2	2	2.4	3.6	\$212.32	2.4	3.6	\$212.32
E	6515003634100	SAW FINGER RING .75" BLADE DIA 6" LG 0.1875" ARBOR HOLE DIAMETER	EA	1	1	0.25	0.013	\$20.47	0.25	0.013	\$20.47
B	6515009357138	SCISSORS BANDAGE 7.25" ANGLE TO HDL 1.5" CUT LG BLUNT PTS CRS	EA	4	4	0.76	0.056	\$3.16	0.76	0.056	\$3.16
H	5305009265590	SCREW INSTRUMENT SPECTACLE FRAME 1000S	PG	1	0	0.694	0.0026	\$13.47	0	0	\$0.00
H	5120002888739	SCREWDRIVER SET JEWELER'S 6 COMPONENTS	SE	1	0	14.73	1.983	\$9.81	0	0	\$0.00
B	6515010394884	SPHYGMOMANOMETER ANEROID 300MM MAX CALIBRATION W/CLIP FOR CUFF	EA	4	2	5	0.4	\$49.64	2.5	0.2	\$24.82
G	6515013637700	SPINEBOARD FOLDING HEAVY GAUGE ALUM FOLDED SIZE 18.50X36X2.75"	EA	1	0	10	3	\$251.44	0	0	\$0.00
A	6530014993504	SPINEBOARD PORTABLE PLAS 2HANDLES AT TAPERED END HOLDS 600 LBS	EA	1	1	16	1.15	\$104.48	16	1.15	\$104.48
H	6530005518681	STAND SURGICAL INSTRUMENT ADJUSTABLE OLIVE DRAB ENAMELED ALUM FIELD	EA	2	0	34	3.5	\$186.68	0	0	\$0.00
E	7520001396170	STAPLER PAPER FASTENING OFFICE DESK W/PREFORMED STAPLES	EA	1	1	0	0	\$5.82	0	0	\$5.82
A	6515009354088	STETHOSCOPE ADL SZ 24" LG TWO POSN VALVE BRASS/ALUM/ZINC/CRS/CS	EA	2	2	1.4	0.6	\$10.86	1.4	0.6	\$10.86
G	6515013146694	STETHOSCOPE COMBINATION LITTMAN CLASSIC II 28"LG BELL-DIAPHRAGM	EA	4	0	4	0.012	\$197.64	0	0	\$0.00
H	6515014350050	SUCTION APPARATUS SURGICAL PORTABLE	EA	1	0	5	0.5	\$1,776.99	0	0	\$0.00
B	6530006600034	SUPPORT LITTER FOLDING LIGHTWEIGHT ALUMINUM 31.5" HIGH	PR	4	2	55	4	\$496.68	27.5	2	\$248.34
F	6545009577650	SURGICAL INSTRUMENT SET MINOR SURGERY	SE	1	1	1.865	0.133	\$141.97	1.865	0.133	\$141.97

Legend:

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E = Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
E	8340013277685	TABLE FOLDING TENT	EA	2	2	10	0.25	\$591.90	10	0.25	\$591.90
E	5210005279429	TAPE MEASURE STEEL CENTIMETERS AND METERS: FEET 100' HANDCRANK	EA	1	1	0.55	0.22	\$19.62	0.55	0.22	\$19.62
H	6685000108366	THERMOMETER SELF INDICATING BIMETALLIC	EA	1	0	0.13	0.023	\$7.25	0	0	\$0.00
G	6515003830565	TOURNIQUET NONPNEUMATIC 41.5-42.5 X 1.469-1.531" CAMOUFLAGED	EA	1	0	0.24	0.02	\$5.03	0	0	\$0.00
A	6515014615798	TOURNIQUET, NONPNEUMATIC VACUTAINER BRAND LATEX FREE 1"X18" 25S	PG	1	1	0.29	0.3	\$8.13	0.29	0.3	\$8.13
A	6515013469186	TRACTION APPARATUS F/IMMOBILIZATION OF FEMORAL FRACTURE	EA	1	1	1.25	0.08	\$84.03	1.25	0.08	\$84.03
G	6515012508936	TRACTION-EXTRICATION SPLINT ADULT ALUMINUM DUAL-HINGED W/CASE	EA	1	0	1.5	0.104	\$579.67	0	0	\$0.00
A	3740011060091	TRAP MOSQUITO LIGHT BATTERY POWERED	EA	4	4	24	1.6	\$800.00	24	1.6	\$800.00
G	3740014575527	TRAP MOSQUITO LIGHT MINIATURE BLACKLIGHT UV	EA	2	0	1.1	0.24	\$368.00	0	0	\$0.00
C	6130NCM990441	TRAVEL VOLTAGE CONVERTER	EA	2	2	0.5	0.05	\$30.00	0.5	0.05	\$30.00
H	6530007939945	TRAY INSTRUMENT STEEL 10.5x8x2IN	EA	1	0	1.5	0.146	\$7.53	0	0	\$0.00
H	6625014833930	TRIPOD FOR WBGT METER QUESTEMP 34	EA	1	0	12	1.12	\$160.00	0	0	\$0.00
E	3920NCM000283	TRUCK HAND	EA	1	1	20	1	\$290.00	20	1	\$290.00
D	6515014407446	VENTILATOR POCKET PORTABLE W/CARRYING CASE 12S	PG	1	1	0.6	2	\$191.10	0.6	2	\$191.10
E	4610015138498	WATER, PURIFIER PORTABLE	EA	1	1	0.25	0.025	\$80.00	0.25	0.025	\$80.00
G	6625014789030	WBGT METER (QUEST)34 MONITOR HEATSTRESS WBGT	EA	1	0	5.75	1.15	\$1,019.15	0	0	\$0.00
A	6665013813023	WET BULB GLOBE TEMPERATURE KIT F/USE IN OUTDOOR AREAS	EA	1	1	40	1.042	\$279.69	40	1.042	\$279.69
G	5120002405328	WRENCH ADJUSTABLE OVAL 215 OPEN END 8IN	EA	1	0	0.1	0.001	\$10.67	0	0	\$0.00
A	5120002643796	WRENCH ADJUSTABLE STEEL/CHROMIUM 12IN OVERALL LENGTH	EA	1	1	1.58	0.028	\$18.39	1.58	0.028	\$18.39

**Legend:**

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E = Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
E	5120000974136	WRENCH BOX ALL ALUMINUM 4.937"L END HAS TWO .25"W SLOTS	EA	1	1	0.15	0.001	\$5.49	0.15	0.001	\$5.49
<b>MEDICATION</b>											
G	6505009857301	ACETAMINOPHEN TABLETS .325GM	BT	1	0	1.075	0.054	\$5.90	0	0	\$0.00
A	6505014824477	ACETAMINOPHEN TABS USP 1000S	BT	1	1	0.75	0.005	\$18.00	0.75	0.005	\$18.00
A	6505012069246	ACYCLOVIR CAPSULES 200MG 100 CAPSULES PER BOTTLE	BT	1	1	0.2	0.016	\$105.89	0.2	0.016	\$105.89
D	6505011169245	ALBUTEROL INHALATION AEROSOL 17GM CONTAINER 200 METERED SPRAYS	CO	1	10	0.13	0.009	\$15.18	1.3	0.09	\$151.80
H	6505001050000	ALCOHOL DEHYDRATED USP 1PT (473ML) BT	BT	1	0	0.014	0.001	\$0.01	0	0	\$0.00
H	6505011464268	ALUMINUM CHLORIDE HEXAHYDRATE SOL 37 ML BT	BT	1	0	0.13	0.006	\$6.97	0	0	\$0.00
C	6505014731770	ALUMINUM MAGNESIUM TABS 100S	BT	1	2	0.035	0.011	\$2.93	0.7	0.22	\$5.86
A	6505012036259	AMOXICILLIN AND POTASSIUM CLAVULANATE TABLETS 30 TABLETS/BOTTLE	BT	8	2	1.04	0.08	\$589.36	0.26	0.02	\$147.34
G	6505013038962	AMOXICILLIN AND POTASSIUM CLAVULANATE TABLETS I.S. 100 TABS/PG	PG	3	0	1.32	0.026	\$475.06	0	0	\$0.00
C	6505011151474	AMOXICILLIN CAPSULES USP 500MG 100 CAPSULES PER BOTTLE	BT	1	5	0.03	0.03	\$1.28	1	1	\$42.80
C	6505001009985	ASPIRIN TABLETS USP 0.325GM 100'S	BT	1	2	0.14	0.01	\$1.49	0.28	0.02	\$2.98
H	6505013366196	ATENOLOL TABLETS 25MG 100 TABLETS PER BOTTLE	BT	1	0	0.045	0.002	\$3.23	0	0	\$0.00
H	6505010946196	ATROPINE SULFATE INJECTION USP 0.1MG/CC 10ML BOTTLE 10 PER BOX	BX	1	0	0.196	0.017	\$2.77	0	0	\$0.00
E	6505014491635	AZITHROMYCIN TABLETS 250MG 30 TABS	BT	5	5	2.75	0.6	\$587.60	2.75	0.6	\$587.60
C	6505001596625	BACITRACIN OINTMENT USP 7100UNITS .5OZ TUBE 12 TUBES/PG	PG	1	2	0.79	.038	\$0.88	1.58	0.076	\$1.76
C	6505012754811	BECLOMETHASONE DIPROPIONATE NASAL SUSPENSION 25GM BOTTLE	EA	1	3	0.22	0.01	\$45.85	0.66	0.03	\$137.55

**Legend:**

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E = Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
C	6505013766540	BENZONATATE CAPSULES USP 100MG 500 CAPSULES PER BOTTLE	BT	1	2	1.85	.015	\$50.56	3.7	0.03	\$101.12
H	6505008899034	BISACODYL TABLETS USP 5MG FILM ENTERIC 1000/BT	BT	1	0	0.006	0	\$0.08	0	0	\$0.00
A	6505012448010	BISMUTH SUBSALICYLATE TABLETS 262MG I.S. 42 TABLETS PER PACKAGE	PG	1	1	0.12	0.007	\$2.56	0.12	0.007	\$2.56
G	6505014437607	BISMUTH SUBSALICYLATE TABLETS CHEWABLE SUGAR FREE I.S. 30/PG	BT	1	0	0.11	0.024	\$0.34	0	0	\$0.00
C	6505014917541	BROMPHENIRAMINE MALEATE/ PSEUDOEPHEDRINE HCL EX-REL CAPS 100S	BT	1	5	0.55	.12	\$15.30	2.75	0.6	\$76.50
D	6515011264323	CATHETERIZATION SET CENTRAL VEIN 16GAX8" RADPQ CATH STER DISP10S	PG	1	1	1.01	0.125	\$115.94	1.01	0.125	\$115.94
B	6505014802501	CEFAZOLIN INJECTION 1GM VIAL 25S	PG	1	1	0.18	0.21	\$43.64	0.18	0.21	\$43.64
H	6505012426532	CEFOTETAN DISODIUM STERILE 2GM VIAL 100 VIALS PER PACKAGE	PG	1	0	1.203	0.047	\$20.56	0	0	\$0.00
B	6505013500359	CEFTIZOXIME SODIUM STERILE USP 100ML VIAL 10 VIALS PER PACKAGE	PG	2	1	4.2	0.042	\$179.50	2.1	0.021	\$89.75
B	6505012192760	CEFTRIAXONE SODIUM STERILE USP 1GM VIAL 10 VIALS PER PACKAGE	PG	2	1	1.394	3	\$414.50	0.697	1.5	\$207.25
E	6505012277028	CEFTRIAXONE SODIUM STERILE USP 250MG VIAL 10 VIALS PER PACKAGE	PG	1	1	0.58	0.02	\$68.71	0.58	0.02	\$68.71
C	6505012593891	CEPHALEXIN CAPSULES USP 250MG 500 CAPSULES PER BOTTLE	BT	1	2	0.366	0.022	\$18.59	1	0.06	\$50.78
G	6505014213787	CETYLPYRIDINIUM&BENZOCAINE LOZ 5MG CETYLPYRID AND 10MG BENZOCAIN	PG	1	0	0.432	0.003	\$10.18	0	0	\$0.00
A	6505013821212	CETYLPYRIDINIUM CHLORIDE BENZYL ALCOHOL&MENTHOL LOZENGES 432/PG	PG	1	1	1.1	0.012	\$2.57	1.1	0.012	\$2.57
H	6505012036253	CHARCOAL ACTIVATED AND SORBITOL SUSPENSION 120ML BOTTLE	BT	1	0	0.013	0	\$0.09	0	0	\$0.00
F	6505002998610	CHLORPHENIRAMINE MALEATE TABLETS USP 4MG 1000 TABLETS PER BOTTLE	BT	1	1	1.29	0.035	\$3.09	1.29	0.035	\$3.09
E	6505013235255	CIMETIDINE TABLETS USP 400MG 500 TABLETS PER BOTTLE	BT	1	1	2.5	2.5	\$35.31	2.5	2.5	\$35.31
C	6505013519272	CIPROFLOXACIN HCL OPHTHALMIC SOL 5ML	BT	1	10	0.65	0.012	\$25.79	6.5	0.12	\$257.90
C	6505015323362	CIPROFLOXACIN HYDROCHLORIDE DEXAMETHASONE OTIC SUSPENSION 7.5ML	BT	1	10	2	0.556	\$57.38	20	5.555	\$573.80

Legend:

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E = Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
C	6505013334154	CIPROFLOXACIN TABLETS USP 500MG 100 TABLETS PER BOTTLE	BT	1	6	0.481	0.009	\$138.21	3.9	0.072	\$1,120.62
H	6505011875540	CLINDAMYCIN PHOSPHATE INJECTION USP 6ML VIAL 25 VIALS/PACKAGE	PG	1	0	0.294	0.012	\$33.47	0	0	\$0.00
H	6505010235011	CLOTRIMAZOLE CREAM USP 1% 15GM	TU	3	0	0.21	0.009	\$13.17	0	0	\$0.00
E	6505015274077	CODEINE PHOSPHATE AND ACETAMINOPHEN TABS 30/300MG 100S	BT	1	3	.55	.12	\$6.80	1.65	0.36	\$20.40
E	6505010628010	CYCLOBENZAPRINE HYDROCHLORIDE TABS 10MG 100S	BT	1	1	0.08	0.005	\$2.21	0.08	0.005	\$2.21
E	6505002999666	CYCLOPENTOLATE HYDROCHLORIDE OPHTHALMIC SOLUTION USP 1% 15ML	BT	1	1	0.06	0.002	\$1.10	0.06	0.002	\$1.10
C	6505011013759	DETERGENT SURGICAL MEDICATED 8 OZ PLASTIC SQUEEZE BOTTLE	BT	14	4	2.31	0.147	\$40.88	0.84	0.044	\$11.68
D	6505014926420	DEXAMETHASONE SODIUM SINGLE DOSE VIAL 25S	VI	1	1	0.55	0.12	\$31.62	0.55	0.12	\$31.62
G	6505015015408	DEXTROSE INJ USP 50% 50ML CARTRIDGE 10/BX	PG	1	0	0.006	0	\$0.33	0	0	\$0.00
A	6505014437072	DEXTROSE INJECTION USP 50ML SYRINGE-NEEDLE UNIT 10 PER PACKAGE	PG	1	2	.55	.12	\$18.63	1.1	0.24	\$37.26
E	6505015053476	DIAZEPAM INJ USP 5MG/ML 2ML CARTRIDGE-NEEDLE 10/PG	PG	1	1	0.55	0.12	\$23.57	0.55	0.12	\$23.57
E	6505012303130	DIAZEPAM TABLETS USP 5MG 100 TABLETS PER BOTTLE	BT	1	1	0.15	0.15	\$1.50	0.15	0.15	\$1.50
G	6505003697289	DICLOXACILLIN SODIUM CAPSULES USP 250MG 100/BT	BT	3	0	0.476	0.025	\$19.80	0	0	\$0.00
A	6505011533272	DIPHENHYDRAMINE HYDROCHLORIDE CAPSULES USP 25MG 100 CAPSULES/BT	BT	1	5	0.614	0.614	\$1.03	4.8	4.8	\$8.05
D	6505005824867	DIPHENHYDRAMINE HYDROCHLORIDE CAPSULES USP 25MG 1000 CAPS/BOTTLE	BT	1	1	1.63	0.054	\$7.96	1.63	0.054	\$7.96
G	6505001168350	DIPHENHYDRAMINE HYDROCHLORIDE CAPSULES USP 50MG 100 CAPS/BT	BT	1	0	0.179	0.005	\$2.08	0	0	\$0.00
H	6505001487177	DIPHENHYDRAMINE HYDROCHLORIDE INJ USP 50MG/ML 1ML SYRINGE 10/BX	BX	1	0	0.05	0.007	\$2.21	0	0	\$0.00
E	6505008090241	DOCUSATE SODIUM CAPSULES USP 100MG 1000 CAPSULES PER BOTTLE	BT	1	1	2.25	0.063	\$9.53	2.25	0.063	\$9.53
C	6505000095063	DOXYCYCLINE HYCLATE CAPSULES USP 100MG 500 CAPSULES PER BT	BT	2	4	1.84	.116	\$57.66	3.68	0.232	\$115.32

Legend:

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E = Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
A	6505015141058	EPINEPHRINE INJ 1MG/ML 30ML MULTI DOSE VI 5S	EA	1	1	1.55	0.12	\$16.91	1.55	0.12	\$16.91
G	6505007341026	EPINEPHRINE INJ USP 1MG/ML 1ML AMPUL 10S	PG	1	0	0.15	0.007	\$2.83	0	0	\$0.00
H	6505010932384	EPINEPHRINE INJECTION USP 0.1MG PER ML SYRINGE-NEEDLE UNIT 10ML 10S	PG	1	0	0.032	0.003	\$0.40	0	0	\$0.00
C	6505011527626	EPINEPHRINE INJECTION USP 1:1000 AUTOMATIC 0.3ML	EA	1	4	0.11	0.033	\$34.63	0.44	0.132	\$138.52
C	6505009820288	ERYTHROMYCIN OPTHALMIC OINTMENT USP 5MG/GM 3.5GM TUBE	TU	1	10	.014	.001	\$1.38	0.3	0.01	\$13.80
A	6505010835988	ERYTHROMYCIN STEARATE TABLETS USP 250MG 100 TABLETS PER BOTTLE	BT	7	2	1.701	0.063	\$31.25	0.54	0.02	\$9.92
B	6505010932887	ERYTHROMYCIN TABLETS USP 250MG 500 TABLETS PER BOTTLE	BT	2	1	19.06	.08	\$38.08	9.53	0.04	\$19.04
H	6505015057721	FEXOFENADINE HYDROCHLORIDE CAPS 180MG 100S	BT	1	0	0.11	0.024	\$20.84	0	0	\$0.00
C	6505013953039	FLUCONAZOLE TABLETS 150MG 12S	PG	1	2	.65	.015	\$124.07	1.3	0.03	\$248.14
E	6505015032390	FLUORESCEIN SODIUM OPTHALMIC STRIPS MODIFIED 1MG 100S	PG	1	1	0.028	0.006	\$3.33	0.028	0.006	\$3.33
E	6505014107226	FLUTICASONE PROPIONATE NASAL SPRAY 16GM 120 ACTUATIONS	EA	4	4	1.4	0.044	\$84.36	1.4	0.044	\$84.36
H	6505012139514	GENTAMICIN SULFATE INJECTION USP 40MG EQUIV/ML 2ML VIAL 25/PG	PG	1	0	0.66	0.02	\$7.09	0	0	\$0.00
H	6505013296484	GUAIFENESIN & DEXTROMETHORPHAN HYDROBROMIDE EXT-REL TABLETS100	BT	2	0	0.281	0.007	\$11.37	0	0	\$0.00
A	6505013258790	GUAIFENESIN & PSEUDOEPHEDRINE EX-REL TABLETS 100/BOTTLE	BT	2	3	1.64	.022	\$230.92	2.46	0.033	\$346.38
G	6505013480278	GUAIFENESIN & PSEUDOEPHEDRINE RELEASE TABLETS100S	BT	1	0	0.132	0.003	\$10.09	0	0	\$0.00
E	6505002688530	HALOPERIDOL INJECTION USP 5MG/ML 1ML AMPUL 10 AMPULES/PACKAGE	PG	1	1	0.13	0.016	\$4.94	0.13	0.016	\$4.94
H	6505013508164	HEMORRHOIDAL SUPPOSITORIES ADULT RECTAL 12 PER PACKAGE	PG	1	0	0.425	0.008	\$1.45	0	0	\$0.00
H	6505011899903	HYDROCODONE BITARTRATE AND ACETAMINOPHEN TABS 100	BT	1	0	0.299	0.004	\$1.57	0	0	\$0.00
H	6505010802904	HYDROCORTISONE ACETATE & PRAMOXINE HYDRO FOAM 10GM	PG	1	0	0.01	0.001	\$5.60	0	0	\$0.00

Legend:

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E= Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
C	6505013008185	HYDROCORTISONE ACETATE SUPP 25MG ADULT RECTAL I.S. 12S	PG	1	2	0.107	0.009	\$17.13	0.214	0.018	\$34.26
C	6505009262095	HYDROCORTISONE CREAM USP 1% 1 OZ (28.35 GM) TUBE	TU	1	10	.11	0.005	\$0.74	1.1	0.05	\$7.40
C	6505001538480	HYDROGEN PEROXIDE TOPICAL SOLUTION USP 1PINT (473 ML)	BT	1	2	1.16	0.041	\$0.35	2.32	0.082	\$0.70
A	6505012149061	IBUPROFEN TABLETS USP 800 MG 100 TABLETS PER BOTTLE	BT	2	2	1	1	\$7.38	1	1	\$7.38
G	6505012149062	IBUPROFEN TABLETS USP 800 MG 500 TABLETS PER BOTTLE	BT	1	0	0.376	0.376	\$3.61	0	0	\$0.00
E	6505006558366	ISOPROPYL RUBBING ALCOHOL 1 PT (473 ML)	BT	1	1	1.67	0.075	\$0.46	1.67	0.075	\$0.46
H	6505013865254	ITRACONAZOLE CAPSULES 100MG 30 CAPSULES PER BOTTLE	BT	1	0	0.275	0.006	\$56.53	0	0	\$0.00
E	6505014821064	KETOROLAC CARTRIDGE-NDL UNIT 30MG/ML 1ML 10S	PG	1	1	0.003	0.01	\$37.78	0.003	0.01	\$37.78
E	6505015019585	LAMIVADINE-ZIDOVADINE TABLETS USP USED WITH HIV KIT 6S	PG	0	1	0	0	\$0.00	0.55	0.12	\$10.42
H	6505015049526	LEVONORGESTREL AND ETHINYL ESTRADIOL 84 TABS	PG	1	0	0.275	0.06	\$3.56	0	0	\$0.00
C	6505014554200	LIDOCAINE HYDROCHLORIDE & EPINEPHRINE INJ USP 1% 20ML 5S	EA	1	3	0.55	0.12	\$1.38	1.65	0.36	\$4.17
C	6505005986116	LIDOCAINE HYDROCHLORIDE INJ USP 1% 10MG/ML 50ML	BT	1	15	0.28	0.01	\$1.05	4.2	0.15	\$15.75
C	6505005843131	LIDOCAINE HYDROCHLORIDE JELLY USP 2% 30ML	PG	1	0	0.045	0.002	\$2.28	0	0	\$0.00
G	6508014360607	LIPSTICK ANTICHAP COLD OR HOT CLIMATE SPF 15 4.4GM STICK 144/PG	PG	1	0	0.088	0.001	\$2.99	0	0	\$0.00
A	6508015087243	LIPSTICK ANTICHAP COLD OR HOT CLIMATE SPF 30 4.4GM STICK 144/PG	PG	1	1	1.35	0.55	\$78.37	1.35	0.55	\$78.37
H	6505012750061	LISINAPRIL TABLETS 10MG 100 TABLETS PER BOTTLE	BT	1	0	0.048	0.003	\$22.77	0	0	\$0.00
C	6505010666568	LOPERAMIDE HYDROCHLORIDE CAPS 2MG 100 CAPS	BT	1	2	0.08	0.004	\$7.14	0.16	0.008	\$14.28
C	6505013771432	LORATADINE TABLETS 10MG 100 TABLETS PER BOTTLE	BT	1	5	0.65	0.012	\$40.86	3.25	0.06	\$204.30
G	6505001538809	LUBRICANT SURGICAL 4OZ (113.4GM) TUBE	TU	1	0	0.056	0.002	\$0.10	0	0	\$0.00

**Legend:**

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D = Current GRL Item – Retain – Convert to LUM/UI

E = Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
A	6505001117829	LUBRICANT SURGICAL 5 GM 144S	BX	1	1	2.06	0.065	\$7.09	2.06	0.065	\$7.09
C	6505013881364	MEBENDAZOLE TABLETS USP 100MG I.S. 12 TABLETS PER PACKAGE	PG	1	2	0.55	0.012	\$37.99	1.1	0.024	\$75.98
C	6505013151275	MEFLOQUINE HYDROCHLORIDE TAB 250MG I.S. 25	PG	1	4	0.12	0.01	\$142.81	0.464	0.04	\$571.24
D	6505008556982	MEPERIDINE HYDROCHLORIDE INJECTION USP 75MG/ML 1ML UNIT 10/BOX	PG	1	1	0.28	0.01	\$3.22	0.28	0.01	\$3.22
H	6505011080808	METHYLPREDNISOLONE SODIUM SUCC INJ 1000MG	CO	1	0	0.12	0.004	\$5.20	0	0	\$0.00
C	6505008901840	METRONIDAZOLE TABLETS USP 250MG 250/BT	BT	1	3	0.053	0.003	\$0.46	1.41	0.072	\$12.33
E	6505010601864	MICONAZOLE NITRATE CREAM TOPICAL 2% 1OZ 24S	PG	1	1	2.75	0.125	\$28.44	2.75	0.125	\$28.44
A	6505010498881	MICONAZOLE NITRATE CREAM USP 45 GM TUBE W/VAGINAL APPLICATOR	EA	1	2	0.2	0.014	\$10.08	0.4	0.028	\$20.16
E	6505015055813	MORPHINE SULFATE INJ USP 10MG 1ML CARTRIDGE-NEEDLE UNIT 10S	PG	1	1	1.15	0.15	\$10.08	1.15	0.15	\$10.08
A	6505011796051	NALOXONE HYDROCHLORIDE INJ USP .400MG/ML 10ML	VI	1	4	0.24	0.006	\$11.86	3.2	0.08	\$158.12
G	6505000797867	NALOXONE HYDROCHLORIDE INJ USP .4MG/ML 1ML AMPUL 10/BX	BX	1	0	0.05	0.021	\$2.04	0	0	\$0.00
E	6505011868758	NAPROXEN TABLETS USP 500 MG 500S	BT	1	1	1.1	1.1	\$42.70	1.1	1.1	\$42.70
C	6505010430230	NEOMYCIN & POLYMYXIN B SULFATE & HYDROCORTISONE OTIC SUSP USP 10ML	PG	1	7	0.12	0.006	\$1.37	0.84	0.042	\$9.59
E	6505006873662	NITROGLYCERIN TAB 0.300MG 100 TABLETS PER BOTTLE	BT	1	1	0.06	0.002	\$5.46	0.06	0.002	\$5.46
H	6505011533379	NITROGLYCERIN TABLETS USP .4MG 100 TABS	PG	1	0	0.002	0	\$0.37	0	0	\$0.00
H	6505015053329	NORETHINDRONE 5 CYCLES OF 21 TABS 1S	PG	1	0	0.275	0.06	\$4.34	0	0	\$0.00
C	6505011414883	OINTMENT BASE 4 OZ JAR	JR	1	4	0.33	0.009	\$4.27	1.32	0.036	\$17.08
C	6505011472084	OPHTHALMIC IRRIGATING SOLUTION 4 FL OZ (118 ML) BOTTLE	BT	1	10	0.36	0.008	\$6.19	3.6	0.08	\$61.90
B	6505001325181	OXYGEN USP 99% CYLINDER TY-D 95GL	EA	4	2	52	1.2	\$503.24	26	0.6	\$251.62

**Legend:**

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E = Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
H	6505008694177	OXYMETAZOLINE HYDROCHLORIDE NASAL SOLUTION .05% 15ML SPRAY BT	BT	1	0	0.1	0.006	\$4.16	0	0	\$0.00
A	6505001490141	PENICILLIN V POTASSIUM TABLETS USP 400000 UNITS 100 TABLETS/BT	BT	1	6	0.2	0.015	\$2.29	1.2	0.09	\$13.74
C	6505013218812	PERMETHRIN CREAM 60GM TUBE	TU	1	4	0.35	0.01	\$15.82	1.4	0.04	\$63.28
C	6505012564972	PERMETHRIN CREAM RINSE 0.100% 2FL OZ PLASTIC SQUEEZE BOTTLE	EA	1	4	0.228	0.135	\$10.65	0.912	0.54	\$42.60
H	6505001388461	PHENAZOPYRIDINE HYDROCHLORIDE TABLETS USP 100MG 100 TT/BT	BT	1	0	0.094	0.004	\$2.67	0	0	\$0.00
E	6505005825344	PHENAZOPYRIDINE HYDROCHLORIDE TABLETS USP 100MG 1000 TABS/BOTTLE	BT	1	1	1.25	0.199	\$31.84	1.25	0.199	\$31.84
C	6505009617486	POLYVINYL ALCOHOL OPTHALMIC SOLUTION ARTIFICIAL TEARS 1.4% 15ML	BT	1	8	0.07	0.003	\$0.86	0.56	0.024	\$6.88
A	6505004917557	POVIDONE-IODINE CLEANSING SOLUTION USP 7.5% 4FL OZ OR 118ML	BT	1	4	0.41	0.016	\$1.00	1.64	0.064	\$4.00
G	6505009143593	POVIDONE-IODINE TOPICAL SOL USP 10% .5FL OZ (14.8ML) 50S	PG	1	0	0.22	0.009	\$3.16	0	0	\$0.00
E	6505002867011	POVIDONE-IODINE TOPICAL SOL EQUIV 1% IODINE 8FL OZ	BT	3	3	2.55	0.09	\$2.31	2.55	0.09	\$2.31
A	6505011460539	PREDNISONE TABLETS USP 10MG 500 TABLETS PER BOTTLE	BT	1	2	0.45	0.011	\$8.71	0.9	0.022	\$17.42
G	6505010729666	PREDNISONE TABLETS USP 20MG 100 TABLETS PER BOTTLE	BT	1	0	0.036	0.036	\$0.78	0	0	\$0.00
E	6505006807352	PROMETHAZINE HYDROCHLORIDE INJ USP 25MG/ML 1ML AMPUL 25/BX	BX	1	1	0.31	0.019	\$9.70	0.31	0.019	\$9.70
C	6505013648557	PROMETHAZINE HYDROCHLORIDE TABS 25MG 100	BT	1	2	0.55	0.011	\$2.05	1.1	0.022	\$4.10
C	6505007539902	PROPACARCAINE HYDROCHLORIDE OPTHALMIC SOLUTION USP 0.5% 15 ML	BT	1	2	0.12	0.006	\$3.57	0.24	0.012	\$7.14
E	6505011787736	PROPOXYPHENE NAPSYLATE TABLETS USP 100MG 100 TABLETS PER BOTTLE	BT	1	2	0.25	0.05	\$54.89	0.5	0.11	\$109.78
G	6505014737775	PSEUDOEPHEDRINE HYDROCHLORIDE TABLETS 100S	BT	2	0	0.594	0.119	\$2.70	0	0	\$0.00
A	6505012323506	PSEUDOEPHEDRINE HYDROCHLORIDE TABLETS 30MG 100 TABLETS/PG	PG	2	5	0.346	0.012	\$7.11	1.6	0.055	\$32.90
H	6505013201707	PSYLLIUM HYDROPHILIC W/ASPARTAME 5GM PACKET30S	PG	1	0	0.11	0.001	\$0.95	0	0	\$0.00

**Legend:**

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E = Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
H	6505015055803	RABEPRAZOLE TABLETS EXTENDED-RELEASE 20 MG 30S	BT	1	0	0.128	0.004	\$4.26	0	0	\$0.00
H	6505011607702	RANITIDINE TABLETS USP 150MG 60 TABLETS PER BOTTLE	BT	1	0	0.018	0.001	\$19.91	0	0	\$0.00
E	6505014623025	RINGER'S INJECTION LACTATED USP 1000ML BAG 12 BAGS PER PACKAGE	PG	1	1	0.25	0.012	\$8.65	0.25	0.012	\$8.65
B	6508014601452	SOAP ANTISEPTIC ANTIBACTERIAL 18 OZ BOTTLE WITH PUMP	BT	2	1	0.9	0.024	\$60.76	0.45	0.012	\$30.38
A	6505000836544	SODIUM CHLORIDE INJECTION USP .9% 1000ML SINGLE DOSE 12S	BX	1	1	31	1	\$4.11	31	1	\$4.11
G	6505014622436	SODIUM CHLORIDE INJECTION USP 0.9% 1000ML BAG 12 BAGS PER PACKAGE	PG	1	0	0.138	0.03	\$2.11	0	0	\$0.00
E	6505013308924	SODIUM CHLORIDE INJECTION USP 0.9% 100ML BAG 64 BAGS PER PACKAGE	PG	1	1	2.1	0.085	\$30.25	2.1	0.085	\$30.25
E	6505013308926	SODIUM CHLORIDE IRRIGATION 0.9% 1000ML BOTTLE 16 PER PACKAGE	PG	1	1	5.35	0.116	\$30.25	5.35	0.116	\$30.25
F	6505006198215	SODIUM PHOSPHATES ENEMA USP DISP ENEMA UNIT 4-1/2 FL OZ (133 ML)	BT	0	4	0	0	\$0.00	1.6	0.068	\$2.76
A	6505012804733	SULFADIAZINE SILVER CREAM 1% 85GM	TU	1	10	0.3	0.013	\$6.04	3.06	0.136	\$60.40
G	6505005607331	SULFADIAZINE SILVER CREAM 1% TOPICAL 400GM JAR	JR	1	0	0.938	0.035	\$10.91	0	0	\$0.00
G	6505010161470	SULFAMETHOXAZOLE & TRIMETHOPRIM TABLETS USP 100/BT	BT	1	0	0.311	0.017	\$4.42	0	0	\$0.00
A	6505013948459	SULFAMETHOXAZOLE AND TRIMETHOPRIM TABS 500	BT	1	1	0.65	0.012	\$35.14	0.65	0.012	\$35.14
F	6505013938410	SUNSCREEN PREPARATION SPF-30 8 HOUR WATERPROOF 4OZ BOTTLE	BT	0	2	0	0	\$0.00	0.7	0.022	\$9.16
E	6515013093551	SUTURE KIT SURGICAL INCL ADSON TISSUE FORCEPS WITH TEETH DISP20S	PG	1	1	0.5	0.75	\$145.27	0.5	0.75	\$145.27
F	6505011160481	TEMAZEPAM CAPSULES 15 MG 500 CAPSULES PER BOTTLE	BT	1	1	0.5	0.025	\$12.11	0.5	0.025	\$12.11
A	6505013559491	TOLNAFTATE PDER 45GM BOTTLE WITH DISPENSER TOP 6/PACKAGE	PG	1	2	1.55	.112	\$6.58	3.1	0.224	\$13.16
G	6505009262241	TOLNAFTATE TOPICAL SOLUTION USP 1% 10ML	BT	3	0	0.18	0.018	\$3.27	0	0	\$0.00
A	6505014803837	TRIAMCINOLONE ACETONIDE CREAM USP 15GM TUBE	TU	2	12	1.1	0.03	\$5.48	6.6	0.18	\$32.88

Legend:

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E = Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
G	6505006828194	TRIAMCINOLONE ACETONIDE CREAM USP TOPICAL 0.1% 15 GM	TU	4	0	0.24	0.012	\$1.72	0	0	\$0.00
C	6505009268913	TRIAMCINOLONE ACETONIDE DENTAL PASTE 5GM	TU	1	4	0.04	0.001	\$5.89	0.16	0.004	\$23.56
H	6505012104472	TRIAMCINOLONE ACETONIDE SUSP STERILE USP 40MG/ML 5ML VIAL	VI	1	0	0.007	0.002	\$8.38	0	0	\$0.00
E	6505012902999	TRIAMTERENE AND HYDROCHLOROTHIAZIDE TABS 100	BT	1	1	0.11	0.11	\$7.83	0.11	0.11	\$7.83
H	6505007539615	TRIPROLIDINE & PSEUDOEPHEDRINE HYDROCHLORIDE TABLETS USP 100S	BT	1	0	0.134	0.004	\$1.81	0	0	\$0.00
H	6505010083054	UNDECYLENIC ACID & ZINC UNDECYLENATE POWDER 45GM	CO	3	0	0.57	0.024	\$3.48	0	0	\$0.00
G	6505014554230	VALACYCLOVIR HCI TABLETS 500MG 100S	BT	1	0	0.132	0.029	\$36.18	0	0	\$0.00
E	6505013308932	WATER FOR IRRIGATION STERILE 1000ML BOTTLE 16 PER PACKAGE	PG	1	1	6.66	0.116	\$30.25	6.66	0.116	\$30.25
<b>CONSUMABLES</b>											
E	6510002036010	ADHESIVE TAPE SURGICAL 12 INCHES BY 5 YARDS	RO	1	1	2.59	0.167	\$18.42	2.59	0.167	\$18.42
E	6510009268884	ADHESIVE TAPE SURGICAL POROUS WOVEN RAYON 3"X10YDS	PG	1	1	1.2	0.05	\$8.26	1.2	0.05	\$8.26
E	6510010959285	ADHESIVE TAPE SURGICAL PVC 198X2" WHITE HYPOALLERGENIC 6S	PG	1	1	0.78	0.067	\$29.79	0.78	0.067	\$29.79
E	6515014590249	ADH TISSUE OCTLYCANOACRYLATE CLOSE SURG WOUND 12S	PG	1	1	0.25	0.005	\$260.52	0.25	0.005	\$260.52
A	6515014594834	AIRWAY KIT CRICOTHYROTOMY SET	EA	2	1	2.3	0.03	\$280.00	1.15	0.015	\$140.00
G	6515013215211	AIRWAY KIT PERCUTANEOUS EMERG ADULT STERILE DISPOSABLE	EA	1	0	0.006	0.002	\$5.60	0	0	\$0.00
E	6515011295438	AIRWAY NASOPHARYNGEAL ARGYLE 30FR 10.10MM OD 7.4MM ID PLAS 10S	PG	1	1	0.6	0.14	\$34.98	0.6	0.14	\$34.98
H	6515011676637	AIRWAY NASOPHARYNGEAL ROBERTAZZI 30FR OBLIQUE TIP 12S	PG	1	0	0.3	0.02	\$5.92	0	0	\$0.00
H	6515011649637	AIRWAY PHARYNGEAL 4" AIRWAY/CUT AWAY FLANGE KINK RES 30FR 100MM 30S	PG	1	0	0.4	0.004	\$9.79	0	0	\$0.00
H	6515009582232	AIRWAY PHARYNGEAL BERMAN DESIGN CHILD SIZE 80MM LENGTH 12S	PG	1	0	0.13	0.013	\$1.60	0	0	\$0.00

Legend:

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G = New GRL Item – Replacement Item

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## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
E	6515012598263	AIRWAY SET ORAL LTWT TUBES SZ INFANT-LGE ADULT 7 COMPONENTS DISP	SE	1	1	0.2	0.055	\$26.68	0.2	0.055	\$26.68
A	6510013391856	APPLICATOR BENZOIN IMPREG IND FOIL WRAPPED 4YDX2IN STERILE 50S	PG	1	1	1	0.075	\$15.43	1	0.075	\$15.43
G	6510012787002	APPLICATOR BENZOIN TINCTURE IMPREGNATED 4INCH SWABSTICK 500S	PG	1	0	0.014	0.001	\$0.20	0	0	\$0.00
E	6515009051473	APPLICATOR PLASTIC/WOOD ROD 6" LG 0.083" DIA STERILE DISP 2000S	PG	1	1	0.65	0.65	\$19.40	0.65	0.65	\$19.40
E	6515015192226	APPLICATOR,DISPOSABLE SWAB STICK PREP SOLUTION PVP IODINE 50S	PG	1	1	0.1	0.1	\$13.35	0.1	0.1	\$13.35
E	6640011536786	BAG WATER SAMPLE POLYETHYLENE 3 X 7 IN 100S	PG	2	2	1.8	0.144	\$42.78	1.8	0.144	\$42.78
H	6640012082383	BAG WATER SAMPLING w/SODIUM THIOSULFATE 500S	PG	1	0	0.248	0.032	\$10.34	0	0	\$0.00
C	6510002011755	BANDAGE MUSLIN COMP. CAMOU.37"X37"X52"	EA	4	24	0.52	0.032	\$8.20	3.12	0.192	\$49.20
C	6510005977469	BANDAGE ADHESIVE FLESH/CLEAR 3x.75IN 100S	BX	1	3	0.26	0.02	\$2.08	0.78	0.06	\$6.24
H	6510001055807	BANDAGE ELASTIC COBAN FLESH 3" X 5YD 24S	PG	1	0	2.603	0.049	\$27.38	0	0	\$0.00
E	6510009355823	BANDAGE ELASTIC COTTON 6"X 4.5YDS 12S	PG	1	1	3.25	0.284	\$21.15	3.25	0.284	\$21.15
E	6510009355822	BANDAGE ELASTIC FLESH ROLLED 4.5YDX4"WASHABLE PRESSURE 12S	PG	1	1	2	0.183	\$4.74	2	0.183	\$4.74
H	6510000583047	BANDAGE GAUZE 6-PLY ROLLED WHITE STERILE 4YDX4.5IN I.S. 100S	PG	1	0	0.196	0.004	\$16.75	0	0	\$0.00
B	6510012308702	BANDAGE GAUZE ELASTIC STER 4.5YD X 3IN WHITE ROLLED LINT FREE12S	PG	4	1	3	0.516	\$28.16	0.75	0.129	\$7.04
H	6510009355804	BANDAGE GAUZE TUBULAR 1.5IN BY 25YDS WHITE ROLLED	RO	1	0	0.56	0.039	\$12.62	0	0	\$0.00
H	6510002007015	BANDAGE GAUZE TUBULAR ROLLED 7/8" x 50 YDS	RO	1	0	0.78	0.084	\$23.99	0	0	\$0.00
G	6530014940126	BASIN EMESIS PLASTIC DISP 500ML 12S	PG	1	0	0.33	0.072	\$4.17	0	0	\$0.00
A	6530008368134	BASIN EMESIS PLASTIC KIDNEY SHAPE 10IN LONG DISP 250S	PG	1	1	17.5	1	\$25.19	17.5	1	\$25.19
A	6530010752723	BASIN WASH PLASTIC DISPOSABLE 7 QT 100S	PG	1	1	55	1	\$24.56	55	1	\$24.56

Legend:

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E= Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
G	6515006600011	BLADE SURGICAL KNIFE DETACHABLE CAR STEEL #10	PG	1	0	0.015	0.001	\$0.71	0	0	\$0.00
A	6515010095295	BLADE SURG KNIFE DET NO.10 SMALL TANG U/W 3 3L 7 9 HDL CS 150S	PG	1	1	1.05	0.045	\$15.16	1.05	0.045	\$15.16
C	6515006600008	BLADE SURG KNIFE DET NO.15 CARBON STEEL U/W 3 3L 7 9 HANDLE 6S	PG	1	2	0.05	0.005	\$1.35	0.1	0.1	\$2.70
C	6515006600010	BLADE SURG KNIFE DETACH STEEL #11 SMALL TANG 7 9 HANDLE 6S	PG	1	2	0.03	0.001	\$0.60	0.06	0.002	\$1.20
H	6510012422271	BLANKET BURN WATER-GEL TYPE 6X 5' 4s	PG	1	0	20	0.805	\$162.89	0	0	\$0.00
H	7210009356665	BLANKET CASUALTY 84x56" PLAST SOLID TAPD	EA	12	0	9.24	0.84	\$71.52	0	0	\$0.00
H	6530011031305	BOTTLE SAFETY CAP AMBER/CLEAR 59ML CAP 100S	PG	1	0	0.35	0.06	\$2.97	0	0	\$0.00
A	6530012761420	BRUSH SURGICAL SCRUB 36S	PG	1	1	4	0.335	\$25.85	4	0.335	\$25.85
G	6530013643353	BRUSH-SPONGE SURGICAL SCRUB DIPS NONSTER 3% PCMX I.P. 300S	PG	1	0	0.067	0.002	\$2.05	0	0	\$0.00
C	6515010726380	CANNULA LARYNGEAL YANKAUER DSGN 72" LG CLEAR 20S	PG	1	0	0.043	0.003	\$6.74	0	0	\$0.00
E	7530002470318	CARD INDEXPAPER GRADE C O/A WHITE 3 X 5 IN RULED 1 SIDE	PG	1	1	1	0.1	\$0.95	1	0.1	\$0.95
C	6515004588413	CATHETER & CONNECTOR SUCTION TRACH 10FR PLASTIC STER DISP 50S	PG	1	0	2.188	0.338	\$10.62	0	0	\$0.00
A	6515010705661	CATHETER & NDL D12 IV 18GAX1.25" LUER LOCK HUB PLASTIC 200S	PG	1	1	2	0.1	\$715.96	2	0.1	\$715.96
G	6515011535402	CATHETER & NDL UNIT IV 18GA 1.25" TAPERED CLOSE FITTING DISP 50S	BX	1	1	1.75	0.125	\$147.56	1.75	0.125	\$147.56
E	6515013909654	CATHETER & NDL UNIT INTRAVENOUS 18GAGE CRS GREEN DISP STER200	PG	1	0	0.788	0.005	\$13.78	0	0	\$0.00
E	6515013909650	CATHETER & NDL UNIT INTRAVENOUS 20GAGE CRS PINK DISP STER200S	PG	1	1	23.1	0.143	\$493.00	23.1	0.143	\$493.00
H	6515013909627	CATHETER AND NDL UNIT IV CRS DISP STER ORANGE 200S	PG	1	0	0.057	0	\$4.71	0	0	\$0.00
C	6515001490104	CATHETERIZATION KIT URETHRAL W/BOT-OUTLET DRAIN BAG 16FR DISP	EA	1	2	0.71	0.254	\$69.79	1.42	0.508	\$139.58
E	6515011535373	CATHETER-NDL UNIT IV 14GAX3.25" LUER HUB AND NDL GUARD RADPQ 50S	BX	1	1	1.25	0.5	\$219.60	1.25	0.5	\$219.60

Legend:

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E = Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
E	6515010227417	CAUTERY BTRY OPER LOW TEMP FINE POINT TIP 1.5V CYL AA HDL DISP10	PG	1	1	1.2	0.07	\$49.57	1.2	0.07	\$49.57
H	6515014493193	COLLECTION CANISTER 1200ML w/LID PLASTIC 10S	PG	1	0	0.137	0.137	\$1.23	0	0	\$0.00
E	6630013884098	COMPARATOR COLOR USE W/6630-01-362-8299 &6630-01-357-5910 100ML	BT	1	1	1.66	0.066	\$6.59	1.66	0.066	\$6.59
E	6515011621800	CONDOM W/RECEPTACLE END LATEX RUBBER (TROJAN) PROPHYLACTIC 36S	PG	2	2	0.66	0.06	\$17.46	0.66	0.06	\$17.46
H	6515013738659	COVER ELECTRONIC THERMOMETER PROBE PLASTIC DISPOSABLE 100S	PG	1	0	0.198	0.01	\$3.95	0	0	\$0.00
H	6515007777325	CRUTCH AUXILLARY 48-59" LG WOOD VARNISHED ADJUSTABLE	PR	4	0	17.32	1.332	\$45.08	0	0	\$0.00
C	6530008377472	CUP SPECIMEN PLASTIC DISPOSABLE 2.5" DIAMETER 4.5 OZ 100S	PG	1	0	0.66	0.154	\$1.21	0	0	\$0.00
E	6515012908955	CURETTE EAR PEDIATRIC FLEX-LOOP 7" LG BLUNT BLADE EDGE PLAS 50S	PG	1	1	0.12	0.008	\$34.04	0.12	0.008	\$34.04
H	6515007777340	CUSHION CRUTCH AUX SPONGE RUBBER 8X1.5" 6" LG 0.688" MEDIAL W	PR	4	0	2.016	0.112	\$6.84	0	0	\$0.00
H	PENDING_PM4	DEIONIZED WATER(100ML/DY)	BT	1	0	10	1	\$10.00	0	0	\$0.00
E	6515003245500	DEPRESSOR TONGUE WOOD 6" X .75" X .062" STRAIGHT 100S	PG	1	1	0.69	0.036	\$2.01	0.69	0.036	\$2.01
E	6665011334964	DETECTOR KIT,CHEMIC	KT	1	1	8	1.05	\$39.93	8	1.05	\$39.93
H	6810010440315	DPD TABLETS 100S	PG	1	0	0.07	0.004	\$1.65	0	0	\$0.00
C	6530014558325	DRAINAGE PLEUREVAC AUTO TRANSFUSION BAG 6S	PG	1	0	0.104	0.021	\$29.04	0	0	\$0.00
C	6515014993126	DRAINAGE UNIT PLEUREVAC w/BLOOD RETREIVAL 6S	PG	1	0	0.15	0.083	\$23.27	0	0	\$0.00
H	6510014575844	DRESSING BURN FIRST AID WATER-GEL TYPE POLYESTER 8X18"STERILE20S	PG	1	0	0.055	0.012	\$10.30	0	0	\$0.00
H	6510014081920	DRESSING CHEST WOUND SEAL 10S	PG	1	0	0.31	0.002	\$20.14	0	0	\$0.00
G	6510002017430	DRESSING FIRST AID FIELD BROWN CAMOUFLAGED 7.75-8.25" LG 7.25-7.75"	EA	4	0	1.16	0.068	\$14.48	0	0	\$0.00
A	6510015064604	DRESSING PRESSURE PAD COTTON 7.5X8" STERILE LATEX FREE	EA	10	6	5.225	1.045	\$40.28	3.3	0.66	\$25.44

Legend:

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E= Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
H	6510001594883	DRESSING FIRST AID FIELD CAMO STER 4x7IN 1S	EA	4	0	0.44	0.024	\$8.32	0	0	\$0.00
A	6510015064608	DRESSING PRESSURE PAD COTTON 11.75X11.75" STERILE LATEX-FREE	EA	3	6	1.65	0.33	\$17.46	3.3	0.66	\$34.92
G	6510002017425	DRESSING FIRST AID CAMOUFLAGED 11.5-12" W 11.5-12" LG ABS	EA	1	0	0.5	0.038	\$5.20	0	0	\$0.00
E	6510011018936	DRESSING OCCLUSIVE ADHESIVE 3X2" TRANSPARENT STERILE FLAT 100S	PG	1	1	0.85	0.025	\$63.70	0.85	0.025	\$63.70
H	8105010990355	ENVELOPE DRUG DISPENSING 5X3" SELF-SEALING POLYETHYLENE 1000S	PG	1	0	0.775	0.04	\$1.02	0	0	\$0.00
E	6510010037697	GAUZE ABSORBENT IODOFORM IMPREGNATED .25" X 5 YARDS 12S	PG	1	1	3.16	0.092	\$34.45	3.16	0.092	\$34.45
D	6510008901894	GAUZE OIL EMULSION IMPREGNATED STERILE SINGLE PLY 16X3INCHES 36S	PG	1	1	1.67	0.083	\$55.50	1.67	0.083	\$55.50
H	6510002020800	GAUZE PETROLATUM STEP BACK ACCORDION WHITE 18X3" 12S	PG	1	0	0.44	0.024	\$8.54	0	0	\$0.00
E	6510000802053	GELATIN SPONGE 6X2X.7CM RECT I.P.PEEL-OPEN PAPER ENVEL SURG 12S	BX	1	1	0.25	0.062	\$59.87	0.25	0.062	\$59.87
A	6515014618929	GLOVE PT EXAM LARGE 9.5IN LG N-DEX DSGN NITRILE RBBR SZ LGE 100S	PG	1	2	0.12	0.012	\$17.23	0.24	0.024	\$34.46
G	6515013648554	GLOVE PT EXAM LARGE PREPOWDER SNUG FITTING CUFF LATEX AMBID	PG	1	0	0.108	0.009	\$0.66	0	0	\$0.00
A	6515014618933	GLOVE PT EXAM MED 9.5IN LG N-DEX DSGN NITRILE RBBR SZ 100S	PG	1	1	0.1	0.01	\$17.23	0.1	0.01	\$17.23
G	6515013648553	GLOVE PT EXAM MED PREPOWDER SNUG FITTING CUFF LATEX AMBID	PG	1	0	0.132	0.011	\$0.81	0	0	\$0.00
G	6515011498841	GLOVES SURGEONS GEN SURG SZ 7.5 RUBBER PREPOWDERED STER DISP 50S	PG	1	0	0.365	0.038	\$0.90	0	0	\$0.00
A	6515013795954	GLOVES SURGEONS SZ 7.5 SYN RBBR FREE OF TALC/PWDR STER DISP200PR	PG	1	1	13.25	1.9	\$116.50	13.25	1.9	\$116.50
G	6515011498842	GLOVES SURGEONS GEN SURG SZ 8 RUBBER PREPOWDER STERILE DISP 50S	PG	1	0	0.365	0.038	\$0.90	0	0	\$0.00
A	6515014723095	GLOVES SURGEONS SZ 8 NONPOWDER 40 PR PER BX TRIPLE LAYER	PG	1	1	0.55	0.12	\$38.80	0.55	0.12	\$38.80
D	6515013795995	GLOVES SURGEONS SZ 7 SYN RBBR FREE OF TALC/PWDR STER DISP 200PR	PG	1	1	13.25	1.9	\$116.50	13.25	1.9	\$116.50
D	6532011536517	GOWN ISOLATION DISPOSABLE YELLOW LARGE ELASTIC CUFF 100S	PG	1	1	0.02	0.004	\$77.90	0.02	0.004	\$77.90

Legend:

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E = Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
B	8520009652109	HAND CLEANER	LB	1	1	24	0.402	\$0.92	24	0.402	\$0.92
C	5970005431154	INSULATION TAPE ELECTRICAL	RO	1	2	0.1	0.1	\$6.44	0.2	0.2	\$12.88
H	6515012767970	INTRAVENOUS EXCHANGE SET 8.5FR ID CATH 2.5" LG RADPQ DISP 25S	PG	1	0	0.792	0.012	\$97.02	0	0	\$0.00
G	6515011050614	INTRAVENOUS INJ SET 12 COMPONENTS NONVENT STER DISP 50S	PG	1	0	0.038	0.008	\$24.10	0	0	\$0.00
A	6515001179021	INTRAVENOUS INJECTION SET VENT 15 DROPS PERML 78"LG STER DISP48S	PG	1	1	6.38	1.05	\$54.73	6.38	1.05	\$54.73
E	7530011728862	LABEL PSA WHITE A2 RECT 1.75IN W X 2.75IN L 1000/ROLL	PG	1	1	8	0.351	\$27.38	8	0.351	\$27.38
E	6540013663157	LENS DELIVERY SET MORGAN LENS DESIGN DISPOSABLE 6S	PG	1	1	0.1	0.1	\$24.98	0.1	0.1	\$24.98
A	6515013180463	MASK & REBREATHING BAG ORONASAL W/ADAPTER CHIN STYLE DISP50	PG	1	1	37.5	2.6	\$106.19	37.5	2.6	\$106.19
G	6515008886122	MASK ORONASAL SEMI-RIGID TRANSLU PLAS FACE-PIECE W/CONN 50S	PG	1	0	0.22	0.06	\$1.67	0	0	\$0.00
E	6515007542836	NEEDLE HYPO C13A GP 20GA 1.438-1.562" LG LUER LOCK REG STER 100S	PG	1	1	0.76	0.044	\$3.67	0.76	0.044	\$3.67
H	6515003025040	NEEDLE HYPO SPINAL PUNCTURE MALLEABLE LEMMON 18 GAGE 4"	EA	2	0	0.095	0.005	\$73.21	0	0	\$0.00
E	7530002237939	NOTEBOOK STENOGRAPHER'S 6X9 IN 12S	PG	1	1	70.5	1.8	\$13.25	70.5	1.8	\$13.25
E	6510007755706	PAD ABDOMINAL 7.5X8" WHITE 3LAYERS STER SEAL PKG POST OP 240S	PG	1	1	15	3.195	\$44.48	15	3.195	\$44.48
B	6530013667671	PAD BED LINEN NONWOVEN PLASTIC POLYPROPYLENE DISP 23X36" 150S	PG	2	1	44	6.8	\$148	22	3.4	\$74.00
A	6530011600883	PAD COOLING CHEM DISP PERINEAL THERAPEUTIC COMFORT24S	PG	3	1	15	3.12	\$62.97	5	1.04	\$20.99
G	6530014644424	PAD COLD COMPRESS CHEMICAL INSTANT 80S	PG	1	0	0.84	0.006	\$33.18	0	0	\$0.00
B	6510011077575	PAD COTTON GAUZE COVERED 2.5 X 2-1/8 INCHES CREAM OR WHITE 50S	PG	2	1	0.94	0.105	\$15.75	0.58	0.065	\$9.72
E	6510001110708	PAD NONADHERENT 3.875/4.125X2.875/3.125"WHITE STER I.S.100S	PG	1	1	1.08	0.112	\$10.77	1.08	0.112	\$10.77
E	6510013060898	PAD PETROLATUM & BISMUTH TRIBROMOPHENATE 9X5" STER WHITE 200S	PG	1	1	3.2	0.002	\$63.68	3.2	0.002	\$63.68

Legend:

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E= Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
A	6510005596130	PAD POST SURGICAL OBSTETRICAL ABSORBENT SUPER SIZE 288S	PG	1	1	0.67	0.113	\$32.58	0.67	0.113	\$32.58
G	6510012935596	PAD POST-SURG OBSTETRIC BELTLESS 13x3IN 180S	PG	1	0	0.183	0.047	\$0.79	0	0	\$0.00
E	6510007863736	PAD PREP ISOPROPYL ALCOHOL IMPREGNATED 2.6"X1.8" 100s	PG	1	1	0.5	0.1	\$2.23	0.5	0.1	\$2.23
H	6515014594403	PADS DEFIBRILLATION 2-PACK F/USE W DEFIBRILLATOR EXTERNAL AUTO	PG	2	0	6.5	2.3	\$88.00	0	0	\$0.00
E	7530012002203	PAPER COPY WHITE8.5X11IN	BX	1	1	35	1.135	\$69.47	35	1.135	\$69.47
E	6515001376345	PLUG EAR NOISE PROTECTION UNIV SZ VINYL FOAM CYLINDRICAL 400S	BX	1	1	2	0.4	\$29.58	2	0.4	\$29.58
H	6810010512815	P-PHENYLENEDIAMINE REAGENT TABLET 250S	BX	1	0	0.086	0.005	\$18.03	0	0	\$0.00
E	6515013225898	RAZOR SURG PREP PLAS STATIONARY DSGN SOLID HDL DISP 100S	PG	1	1	0.01	0.001	\$27.54	0.01	0.001	\$27.54
H	6515012968419	REMOVER SURGICAL STAPLE STERILE DISPOSABLE 12	EA	1	0	0.656	0.022	\$19.47	0	0	\$0.00
E	6532014590428	RESPIRATOR AIR FILTER 1.0 MICRON AT 50LITERS P/MINUTE AT 99.6%	PG	1	1	0.25	0.015	\$84.79	0.25	0.015	\$84.79
E	6532014502057	RESPIRATOR AIR FILTERING INFECTION CONTROL 35S	PG	1	1	0.25	0.015	\$84.79	0.25	0.015	\$84.79
E	6640015123590	SCOOP LABORATORY PLAS DISP STER FLAT BOTTOM 7.5"HOLDS2OZ IP 100S	PG	1	1	2.25	0.25	\$42.95	2.25	0.25	\$42.95
E	6520010609516	SEALING COMPOUND PULP CANAL DENTAL PASTE NON-TOXIC TUBE 4S	PG	1	1	0.05	0.001	\$15.34	0.05	0.001	\$15.34
E	7210001396376	SHEET BED FLAT NONWOVEN FABRIC AQUA DISPOSABLE 100S	PG	1	1	31	1.75	\$101.94	31	1.75	\$101.94
G	6515012538165	SHIELD EYE SURG GOFFMAN SGL CATARACT OPERATION 50S	PG	1	0	0.008	0	\$1.07	0	0	\$0.00
A	6515014491016	SHIELD EYE SURGICAL FOX SINGLE NATURAL ALUMINUM 12S	PG	1	1	0.3	0.3	\$19.71	0.3	0.3	\$19.71
H	8520013535671	SKIN CLEANSER 60PCT ETHYL ALCOHOL NO RINSE 4 OZ/BT PLAS 36S	PG	1	0	1.75	0.097	\$7.47	0	0	\$0.00
A	6510000547255	SKIN CLOSURE ADHESIVE SURGICAL POROUS .25 BY 4 INCHES 500S	PG	1	1	0.72	0.035	\$65.71	0.72	0.035	\$65.71
G	6510000547254	SKIN CLOSURE ADHESIVE SURGICAL POROUS .50 BY 4 INCHES 300S	PG	1	0	0.033	0.002	\$2.28	0	0	\$0.00

Legend:

A = Current GRL Item – Delete/Substitute

B = Current GRL Item – Retain – Level Increase

C = Current GRL Item – Retain – Level Decrease

D = Current GRL Item – Retain – Convert to LUM/UI

E = Current GRL Item – No Change

F = Current GRL Item – Delete

G = New GRL Item – Replacement Item

H = New GRL Item

## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
E	6515013294847	SPECULUM OTOSCOPE SLIT TYPE 4MM SIZE ADULT PLAS BLACK DISP 1000S	PG	1	1	10	1	\$19.25	10	1	\$19.25
E	6515003705620	SPECULUM VAGINAL GRAVES MED COML SZ 5.438" LG PIVOTED BLADE CRS	EA	2	2	1.54	0.112	\$62.60	1.54	0.112	\$62.60
E	6515014854041	SPLINT FINGER PHALANGE 18X.75" ALUMINUM ALLOY	PG	1	1	0.61	0.12	\$14.36	0.61	0.12	\$14.36
C	6515011961701	SPLINT FOOT & ANKLE PNEUMATIC ADULT SIZE 15" LG RADIOLUCENT PLAS	EA	1	2	1	0.012	\$5.38	2	0.06	\$10.76
G	6515014941951	SPLINT UNIVERSAL ALUM 36"O/A LG 4.25"W GRAY & OLIVE DRAB REUSE 1S	EA	5	0	0.99	0.36	\$45.00	0	0	\$0.00
A	6515013589488	SPLINTING MATERIAL ORTHO 72X4" ROLL FORM ALUM/RUBBER FOAM	EA	4	6	1	0.04	\$79.04	1.5	0.06	\$118.56
H	6510007822699	SPONGE SURGL 12-PLY GAUZE ABSORB COMPRESSED 8X4" WHITE NONSTERILE	PG	1	0	0.024	0.002	\$0.22	0	0	\$0.00
E	6510007219808	SPONGE SURG CELLULOSE/COTTON/ GAUZE 4 X 4" STERILE 1200S	PG	1	1	16	2.2	\$46.60	16	2.2	\$46.60
E	6510000584421	SPONGE SURGICAL GAUZE 2X2" STERILE WHITE 20-12 MESH 3000S	PG	1	1	10	1.35	\$89.60	10	1.35	\$89.60
H	6510007822698	SPONGE SURGICAL GAUZE ABS WHITE 4 X 4" 8-PLY U/F INJURIES/SURGERY 200	PG	1	0	0.042	0.004	\$0.33	0	0	\$0.00
H	6515010715561	STAPLER SKIN SURGICAL DISP 35 SZ 6.9X3.9MM STAPLES 6S	PG	1	0	0.4	0.032	\$22.21	0	0	\$0.00
E	7520002729662	STAPLES PAPER FASTENING OFFICE TYPE .5"W .25"LG 5000S	BX	1	1	0.43	0.02	\$0.78	0.43	0.02	\$0.78
E	6515010357962	STOPCOCK INTRAVENOUS THERAPY 3 WAY PLASTIC STERILE DISPOSABLE50S	PG	1	1	0.56	0.15	\$41.28	0.56	0.15	\$41.28
E	6515013948327	STYLET TRACHEAL TUBE 7.5-10MM PLAS STER DISP 10S	PG	1	1	2.1	0.021	\$40.89	2.1	0.021	\$40.89
A	6515014851507	SUPPORT CERVICAL ADJUSTABLE ADULT 16 SETTINGS 2 SAFETY BUTTONS	EA	2	2	20	9	\$25.90	20	9	\$25.90
G	6515014663004	SUPPORT CERVICAL COLLAR ADJUSTABLE SIZES 1-16 FOLDS FLAT 30s	PG	1	0	0.043	0.001	\$24.24	0	0	\$0.00
E	6515004822833	SUTURE ABSORBABLE SURGICAL 4-0 2.25' LG POLYGLYCOLIC ACID SGL ARMED STER 36	PG	1	1	0.53	0.049	\$33.53	0.53	0.049	\$33.53
A	6515009608192	SUTURE NONABS SURG SZ 3-0 1.50' LG NDL FS-1 BLACK NYLON STER 36S	PG	1	1	0.39	0.024	\$18.82	0.39	0.024	\$18.82
G	6515002277897	SUTURE NONABSORB SURG SZ 3-0 2.50' LG NYLON MONO SGL ARMED STER 36S	PG	1	0	0.001	0	\$8.61	0	0	\$0.00

Legend:

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D = Current GRL Item – Retain – Convert to LUM/UI

E = Current GRL Item – No Change

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G = New GRL Item – Replacement Item

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## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
E	6515010615374	SUTURE NONABSORB SURG 5-0 18" NDL FS-2 DRY PACK UNCOATED NYLON	PG	1	1	0.4	0.02	\$34.42	0.4	0.02	\$34.42
E	6515004361881	SUTURE REMOVAL KIT STER DISP F/REMOVING SILK/NYLON SUT 50S	PG	1	1	6.5	0.612	\$0.68	6.5	0.612	\$0.68
B	6515009824205	SYRINGE & NEEDLE TUBERCULIN 1ML CAP 25GA SGL SCALE PLAS STER100S	PG	1	1	2.4	0.25	\$8.62	2.4	0.25	\$8.62
H	6515014520465	SYRINGE & NEEDLE VANISH-PT 3CC/23GA 100S	PG	1	0	0.054	0.063	\$7.41	0	0	\$0.00
A	6515013568511	SYRINGE HYPO GP 10ML CAP LUER LOCK TIP W/O NEEDLE PLAS STER 400S	PG	1	1	12	1.4	\$56.39	12	1.4	\$56.39
G	6515007540412	SYRINGE HYPO GP 10-12 ML CAP LUER SLIP W/O NDL CONCENTRIC TIP 100S	PG	1	0	4.93	0.485	\$16.14	0	0	\$0.00
E	6515007540406	SYRINGE HYPO GP 5ML CAP SGL SCALE LUER SLIP PLAS STER DISP 100S	PG	1	1	4.75	0.46	\$27.23	4.75	0.46	\$27.23
E	6515014123101	SYRINGE HYPO GENERAL PURPOSE 20CU CM CAPACITY DISP STER25S	PG	1	1	1.2	0.011	\$12.54	1.2	0.011	\$12.54
E	6520011732081	SYRINGE KIT DEN IMPRESSION & IRRIGATING BARREL&PLUNGER DISP12ML	KT	1	1	1.75	0.296	\$27.82	1.75	0.296	\$27.82
G	8465013376792	TAG ID PERSONNEL CARDBOARD 8.188INX4.062IN FIELD TRIAGE 200S	PG	1	0	0.02	0.04	\$3.90	0	0	\$0.00
A	6530013983968	TAG MASS CASUALTY INDICENT TRIAGE DESIGN COLOR CODED 50S	PG	1	1	0.5	0.015	\$24.39	0.5	0.015	\$24.39
E	6510009268882	TAPE ADHESIVE SURGICAL POROUS WOVEN ROLLED RUBBER 1"X 10YD 12S	PG	1	1	1.41	0.05	\$7.90	1.41	0.05	\$7.90
C	5640001032254	TAPE DUCT PLAS CLOTH VAPOR PROOF ALUM OR SILVER 2" X 60YD	RO	1	2	1	0.042	\$2.53	2	0.084	\$5.06
C	5970004194291	TAPE INSULATION ELECT	RO	1	2	0.1	0.001	\$1.75	0.2	0.002	\$3.50
C	6550001656538	TEST KIT OCCULT BLOOD DETERMIN.100 TESTS	EA	1	0	0.09	0.004	\$1.31	0	0	\$0.00
E	6630010124093	TEST PAPER CHLORINE DETERMIN RANGE 10-50-100-200 PPM 150FT	PG	1	1	0.5	0.013	\$42.75	0.5	0.013	\$42.75
E	6640012641387	TEST PAPER HYDROGEN ION 0.0-13.0 PH VALUE RANGE 15'LG .218"W	PG	1	1	0.008	0.005	\$7.52	0.008	0.005	\$7.52
H	6550011225540	TEST STRIPS&COLOR CHART BILIRUBIN BLD GLU KET NITRITE PH PROT100	BT	1	0	0.09	0.004	\$10.35	0	0	\$0.00
B	6515013429183	THERMOMETER LIQUID CRYSTAL CLINICAL 84-106 DEG F ADH BACK 100S	PG	2	1	1.65	0.092	\$265.90	1	0.056	\$161.15

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## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
H	6515010133911	TIP CANE & CRUTCH 18B .75" DIAMETER 2.88-3" HIGH CORRUGATED RUBBER 12S	PG	1	0	0.76	0.032	\$4.67	0	0	\$0.00
G	6515013851697	TUBE DRAINAGE SURG PENROSE 7/8" x 12" AMBER RUBBER 200s	PG	1	0	0.13	0.035	\$3.75	0	0	\$0.00
E	6515007637366	TUBE DRAINAGE SURG C18 THORACIC 32FR STR 20"LG STER DISP 10S	PG	1	1	1.54	0.096	\$25.98	1.54	0.096	\$25.98
H	6515008669073	TUBE DRAINAGE SURG C18 THORACIC 36FR STR 6 EYE STER PL DISP 10S	PG	1	0	0.154	0.01	\$1.71	0	0	\$0.00
H	6515015028791	TUBE INHALER FORCE-FIT 84" PLASTIC DISP 50S	PG	1	0	0.2	0.1	\$2.24	0	0	\$0.00
E	6515011295439	TUBE NASOPHARYNGEAL ARGYLE 32FR 10.16MM OD 7.9MM ID PLAS STER10S	PG	1	1	0.01	0.001	\$34.48	0.01	0.001	\$34.48
C	6515001490316	TUBE STOMACH SURGICAL PLASTIC SALEM E19 W/FUNNEL 16FR DBL LUMEN 48"	PG	1	0	2.4	0.42	\$110.60	0	0	\$0.00
C	6515011742354	TUBE SUCTION SURG 144" PLASTIC 9/32" DIAM TRANSPARENT DISP 20S	PG	1	0	0.005	0.001	\$1.39	0	0	\$0.00
H	6515014211388	TUBE TRACHEAL ESOPHAGEAL COMBITUBE 41 FR 4S	PG	1	0	0.85	0.017	\$173.63	0	0	\$0.00
E	6515001050744	TUBE TRACHEAL MURPHY E12 W/CUFF 7.0MM ID 30CM LG W/15MM CONN 10S	PG	1	1	1	0.05	\$16.00	1	0.05	\$16.00
H	6515001050759	TUBE TRACHEAL MURPHY E12 W/CUFF 8.0MM ID 10.7MM DIA 32CM LG 10S	PG	1	0	0.425	0.021	\$8.76	0	0	\$0.00
C	6515012460108	TUBE TRACHEAL NASAL E12 W/CUFF 8MM LOW PRESSURE/THIN CUFF 10S	PG	1	2	1.5	0.437	\$94.21	3	0.874	\$188.42
A	6515012405760	TUBE TRACHEAL ORAL AND RAE E12 W/CUFF 7.5MM 10S	PG	1	2	1	0.05	\$92.78	2	0.1	\$185.56
G	6515010369034	TUBE TRACHEAL RADIOPAQUE MURPHY DISP 7.5MM ID 9.3MM OD 10S	PG	1	0	0.51	0.111	\$9.75	0	0	\$0.00
E	6515009269150	VALVE SURG DRAIN HEIMLICH 4.50" LG 1" DIA FLUTTER RBBR STER DISP 10S	PG	1	1	0.06	0.024	\$189.91	0.06	0.024	\$189.91
E	6665014265071	VERIFICATION KIT RADIAC	EA	1	1	2.25	0.55	\$750.00	2.25	0.55	\$750.00
H	6505014624373	WATER FOR IRRIGATION STERILE USP 1500 ML PLAS	PG	1	0	0.22	0.02	\$2.35	0	0	\$0.00
E	6630013628299	WATER SAMPLING TEST REAGENT COLIFORM 200S	PG	1	1	1	0.5	\$1,220.60	1	0.5	\$1,220.60
E	6665011340885	WATER TESTING KIT M272 CHEMICAL AGENTS	EA	1	1	28	0.147	\$235.10	28	0.147	\$235.10

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## Appendix F. GRL to ESP Mapping

Cat	NSN	Nomenclature	UM	ESP QTY	GRL QTY	Revised Wgt	Revised Cube	Revised Cost	Current Wgt	Current Cube	Current Cost
<b>DURABLES</b>											
A	6530013416077	BAG BIOHAZ DISP RED BLACK BIOHAZ SYMBOL SGL WALL 25X35" 200S	PG	1	1	2	0.1	\$167.99	2	0.1	\$167.99
G	6530011075798	BAG STERILIZATION-BIOHAZARD DISP 36x24" 200S	PG	1	0	17	0.435	\$137.23	0	0	\$0.00
E	8105011839769	BAG PLASTIC 39 X 33 IN DARK BROWN & GREEN 33 GAL 50 LB 125S	BX	1	1	0	0	\$31.78	0	0	\$31.78
E	8105008377753	BAG PLASTIC 4X4IN	MX	1	1	35	0.278	\$14.12	35	0.278	\$14.12
E	6135009857845	BATTERY NONRECHARGEABLE ALKALINE 1.5V 1 YEAR SHELF LIFE	PG	1	1	0.1	0.001	\$6.03	0.1	0.001	\$6.03
C	6135008357210	BATTERY NONRECHARGEABLE D CELL 1.5 VOLT CYLINDRICAL 12S	PG	1	2	3.5	0.027	\$9.84	7	0.054	\$19.68
E	6140004320490	BATTERY STORAGE 6V 5 YEAR SHELF LIFE	EA	1	0	2.6	0.157	\$18.11	0	0	\$0.00
C	7035NCM010076	BLACK INK JET CARTRIDGE	EA	1	2	0.2	0.02	\$28.00	0.4	0.04	\$56.00
H	6515003634150	BLADE FINGER RING SAW STEEL CARBON	EA	1	0	0.01	0.001	\$10.37	0	0	\$0.00
B	6515015249755	CLEAN-UP KIT BLOOD AND FLUID	KT	6	2	7.5	18	\$64.68	2.5	6	\$21.56
C	7035NCM010075	COLOR INK JET CARTRIDGE	EA	1	2	0.2	0.02	\$27.00	0.4	0.04	\$54.00
E	7045013652069	DISK FLEXIBLE MAGNETIC DS/HD 96 TRACKS PER INCH 10 DISKS	BX	1	1	0.5	0.019	\$3.67	0.5	0.019	\$3.67
G	6530014604782	DISPOSAL BOX SHARPS BOARD FOLD-FLAT 5 LT 25	PG	1	0	0.138	0.045	\$12.47	0	0	\$0.00
A	6530014609635	DISPOSAL CONTAINER BIOHAZARDOUS MATERIALS SHARPS 1QT RIGID RED72	PG	1	1	1.15	0.15	\$136.67	1.15	0.15	\$136.67
E	7025NCM041046	FLASH PEN USB	EA	4	4	0.004	0.04	\$180.00	0.8	0.08	\$180.00
E	7520003126124	MARKER TU TYPE FINE TIP BLACK DRIES INSTANTLY	PG	1	1	0.5	0.01	\$8.71	0.5	0.01	\$8.71
E	7520009357136	PEN BALL-POINT RETRACTABLE MED PT BLACK	DZ	1	1	0.36	0.144	\$5.06	0.36	0.144	\$5.06
E	7510002815234	PENCIL NONINDELIBLE GRAPHITE LEAD NO.2 THIN IV TYPE & 2 NUMBER	DZ	1	1	0.1	0.001	\$1.35	0.1	0.001	\$1.35

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## Appendix F. GRL to ESP Mapping

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B	7510013162302	PORTFOLIOS 100S	BX	2	1	4	0.04	\$11.80	2	0.02	\$5.90
C	9905014582060	RIBBON FLAGGING ARTIC VINYL 150FT LG 1.18IN WIDTH 12ROLLS P/CART	BX	1	2	2.25	0.25	\$14.42	4.5	0.5	\$28.84
E	4020009900988	ROPE FIBROUS NYLON 550 POUND BREAKING STRENGTH 100FT	RO	1	1	15	1.03	\$8.39	15	1.03	\$8.39
H	6515013737292	THERMOMETER CLINICAL HUMAN ORAL DIGITAL LTWT 300 HOUR PLASTIC	EA	1	0	0.01	0.001	\$9.50	0	0	\$0.00

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## REPORT DOCUMENTATION PAGE

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<b>1. Report Date (DD MM YY)</b> January 11, 2006	<b>2. Report Type:</b> Technical Report, Final	<b>3. DATES COVERED (from - to)</b> March 2005 – January 2006
<b>4. TITLE AND SUBTITLE</b> The Air Force Global Reach Laydown (GRL): Using the Estimating Supplies Program to Validate Clinical Requirements		<b>5a. Contract Number:</b> GS-35F-4357D <b>5b. Grant Number:</b> <b>5c. Program Element:</b> <b>5d. Project Number:</b> 36000G.0.750.789 <b>5e. Task Number:</b> 9T4SJLIS011 <b>5f. Work Unit Number:</b> 60334
<b>6. AUTHORS</b> Ralph Nix, Martin Hill, Kathleen Onofrio, Paula Konoske, Michael Galarneau		<b>9. PERFORMING ORGANIZATION REPORT NUMBER</b> Report No. 06-05
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**12 DISTRIBUTION/AVAILABILITY STATEMENT**  
Approved for public release; distribution is unlimited.

### 13. SUPPLEMENTARY NOTES

### 14. ABSTRACT (maximum 200 words)

The Air Force Medical Support Agency, Surgeon General Support Logistics Office requested the naval Health Research Center (NHRC) conduct a proof-of-concept study to assess the validity and feasibility of using NHRC's medical modeling tool for the development and management of Air Force medical Allowance Standards (AS). The Global Reach Laydown (GRL) Unit Type Code (UTC) AS was selected as the final of 3 UTCs. The objective of this study was to provide the Air Force with the ability to validate the clinical and preventive medicine (PM) requirements of the GRL AS, with the goal of using the NHRC model and database to establish an audit trail linking clinical requirements with supply items. Following NHRC's process of modeling clinical requirements, the Estimating Supplies Program database of task and supply profiles was the template used to complete the relational mapping of patient conditions to clinical tasks, medical equipment and supplies, and to identify 120 clinical, PM, and nonclinical tasks required by the GRL. A result of this effort was mapping the GRL inventory to joint solutions. There were shortfalls in the tasks required for this level of care, most notably those associated with nasogastric insertion and suction, chest tube suction, and cardiopulmonary resuscitation. When a required task did not have supplies and equipment in the GRL inventory, they were added to the model.

**15. SUBJECT TERMS**  
Air Force, GRL, clinical requirements

<b>16. SECURITY CLASSIFICATION OF:</b>			<b>17. LIMITATION OF ABSTRACT</b> UNCL	<b>18. NUMBER OF PAGES</b> 21	<b>19a. NAME OF RESPONSIBLE PERSON</b> Commanding Officer
<b>a. REPORT</b> UNCL	<b>b. ABSTRACT</b> UNCL	<b>c. THIS PAGE</b> UNCL			<b>19b. TELEPHONE NUMBER (INCLUDING AREA CODE)</b> COMM/DSN: (619) 553-8429